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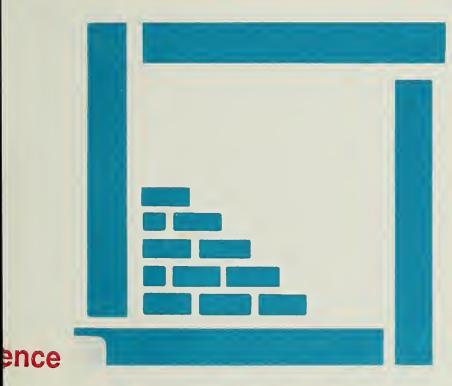
Census of Construction Industries

CC87-I-4

INDUSTRY SERIES

General Contractors— Industrial Buildings and Warehouses

Industry 1541



this room

U.S. Department of Commerce BUREAU OF THE CENSUS

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Many persons participated in the various activities of the 1987 Census of Construction Industries.

The overall planning and review of the census operations were performed by the staff of the Office of the Assistant Director for Economic and Agriculture Censuses.

This report was prepared in the Construction Statistics Division. Barry A. Rappaport, Assistant Division Chief for Industry Surveys, was responsible for the overall planning, management, and coordination of the census of construction industries. Planning and implementation were under the direction of A. William Visnansky, Chief, Census Operations Branch, with primary staff assistance by Juliana Van Berkum, Barbara J. Hadden, Edward R. Glover, Susan L. Hostetter, Shirley M. Baker, and Carolyn J. Stone. Under the direction of Jesse Pollock, Edward K. Ricketts and Dennis K. Duke developed the sampling plans and variance and estimation specifications.

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If you have any questions concerning the statistics in this report, call (301) 763-7546.

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Issued January 1990



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PURPOSE AND USES OF THE ECONOMIC **CENSUSES**

The economic censuses are the major source of facts about the structure and functioning of the Nation's economy. They provide essential information for government, business, industry, and the general public.

Economic censuses furnish an important part of the framework for such composite measures as the gross national product, input-output measures, production and price indexes, and other statistical series that measure short-term changes in economic conditions.

Policy-making agencies of the Federal Government use the data, especially in monitoring economic activity and providing assistance to business.

State and local governments use the data to assess business activities and tax bases within their jurisdictions and to develop programs to attract business.

Trade associations study trends in their own and competing industries, and keep their members informed of market changes.

Individual businesses use the data to locate potential markets and to analyze their own production and sales performance relative to industry or area averages.

AUTHORITY AND SCOPE

Title 13 of the United States Code (sections 131, 191, and 224) directs the Census Bureau to take the economic censuses every 5 years, covering years ending in 2 and 7. The 1987 Economic Censuses consist of the-

Census of Retail Trade

Census of Wholesale Trade

Census of Service Industries

Census of Transportation

Census of Manufactures

Census of Mineral Industries

Census of Construction Industries

Special programs also cover enterprise statistics and minority-owned and women-owned businesses. (The 1987 Census of Agriculture and 1987 Census of Governments are conducted separately.) The next economic censuses are scheduled to be taken in 1993 covering the year 1992.

AVAILABILITY OF THE DATA

The results of each of the economic censuses are available in printed reports, for sale by the U.S. Government Printing Office, and on microfiche, computer tape, compact discs with read-only memory, and flexible diskettes, for sale by the Census Bureau. Order forms for all types of products are available on request from Customer Services, Census Bureau, Washington, DC 20233. A more complete description of publications being issued from this census is on the inside back cover of this document.

Census facts are also widely disseminated by trade associations, business journals, and newspapers. Volumes containing census statistics are available in most major public and college libraries. Finally, State Data Centers in every State and Business and Industry Data Centers in many States also supply economic census statistics.

WHAT'S NEW IN 1987

Several changes have taken place for the 1987 censuses. Data will be reported on the basis of the newly revised Standard Industrial Classification (SIC) system with selected reports including "bridge tables," linking the old and new classification systems. A new set of metropolitan

areas has been adopted, and more detailed information will be available for businesses with no paid employees. For additional information on these changes, review the subsequent text.

One important change involves receipts of contractors and builders. Prior to 1987, the Census of Construction Industries collected receipts as the primary measure of construction activity. For 1987, the census collected the "value of construction work done" to better measure actual construction activity done during the year. Differences between the two concepts occur when work is done in one year and payment received either from the prior or in the succeeding year. In addition, receipts do not include work a contractor performs for its own account and use.

HISTORICAL INFORMATION

The economic censuses have been taken together as an integrated program at 5-year intervals since 1967, and before that for 1963, 1958, and 1954. Prior to that time, the individual censuses were taken separately at varying intervals.

The economic censuses trace their beginnings to the 1810 Decennial Census, when questions on manufacturing were included with those for population. Coverage of economic activities was expanded for 1840 and subsequent censuses to include mining and some commercial activities. In 1902, Congress established a permanent Census Bureau and directed that a census of manufactures be taken every 5 years. The 1905 manufactures census was the first time a census was taken apart from the regular every-10-year population census.

The first census of business was taken in 1930, covering 1929. Initially it covered retail and wholesale trade, and construction industries, but it was broadened in 1933 to include some of the service trades.

The 1954 economic censuses were the first to be fully integrated—providing comparable census data across economic sectors, using consistent time periods, concepts, definitions, classifications, and reporting units. These were the first censuses to be taken by mail, using lists of firms provided by the administrative records of other federal agencies. Since 1963, administrative records have also been used to provide basic statistics as well for very small firms, reducing or eliminating the need to send them census questionnaires. The Enterprise Statistics Program, which publishes combined data from the economic censuses, was made possible with the implementation of the integrated census program in 1954.

The range of industries covered in the economic censuses has continued to expand. The Census of Construction Industries began on a regular basis in 1967, and the scope of service industries was broadened in 1967, 1977, and 1987. The Census of Transportation began in 1963 as a set of surveys covering travel, transportation of commodities, and trucks. New for 1987 are publications reporting on business establishments engaged in several transportation industries, paralleling the data on establishments in

other sectors. This is part of a gradual expansion in coverage of industries previously subjected to government regulation. The Survey of Minority-Owned Business Enterprises was first conducted as a special project in 1969 and was incorporated into the economic censuses in 1972 along with the Survey of Women-Owned Businesses.

Economic censuses have also been taken in Puerto Rico since 1909, in the Virgin Islands and Guam since 1958, and in the Northern Mariana Islands since 1982.

Statistical reports from the 1982 and earlier censuses provide historical figures for the study of long-term time series, and are available in some large libraries. All of the census data published since 1967 are still available for sale on microfiche from the Census Bureau.

AVAILABILITY OF MORE FREQUENT ECONOMIC DATA

While the censuses provide complete enumerations every 5 years, there are many needs for more frequent data as well. The Census Bureau conducts a number of monthly, quarterly, and annual surveys, the results of which appear in publication series such as Current Construction Reports (building permits, housing starts, and value of new construction put in place), *Current Business-Reports* (retail and wholesale trade and service industries), the *Annual Survey of Manufactures, Current Industrial Reports,* and the *Quarterly Financial Report.* Most of these surveys, while providing more frequent observations, yield less kind-of-business and geographic detail than the censuses. The *County Business Patterns* program offers annual statistics on the number of establishments, employment, and payroll classified by industry within each county.

SOURCES FOR MORE INFORMATION

More information about the scope, coverage, classification system, data items, and publications for each of the economic censuses and related surveys is published in the *Guide to the 1987 Economic Censuses and Related Statistics*. More information on the methodology, procedures, and history of the censuses will be published in the *History of the 1987 Economic Censuses*. Contact Customer Services for information on availability.

CENSUS OF CONSTRUCTION INDUSTRIES—SCOPE AND CLASSIFICATION

The 1987 Census of Construction Industries covers all employer establishments (establishments with payroll) primarily engaged in contract construction, construction on their own account for sale, or in subdividing real property

into lots as defined in the 1987 Standard Industrial Classification (SIC) Manual.1 This industrial classification system has been developed by experts on classification in government and private industry under the guidance of the Office of Management and Budget and is in general use among government agencies and among organizations outside the government.

Contract construction—The SIC manual defines construction in three broad types of activity that follow:

- 1. Building construction by general contractors or by operative builders- General building contractors are primarily engaged in the construction of dwellings, office buildings, stores, farm buildings, and other building projects. Operative builders who build on their own account for sale are also included here. However, investment builders who build structures on their own account for rent are classified in Real Estate.
- 2. Heavy construction general contractors—Heavy construction general contractors are primarily engaged in the construction of highways, bridges, pipelines, sewers and water lines, marine construction, power, and petro-chemical plants and other nonbuilding construction projects. Special trade contractors are classified in heavy construction if they are specifically engaged in the following activities: grading for highway and airport runways; guardrail construction; installation of highway signs; asphalt and concrete construction of roads, highways, streets and public sidewalks; trenching, cable laying; conduit construction; underwater rock removal; pipeline wrapping; or land clearing and leveling.
- 3. Construction by other special trade contractors—These contractors include plumbers, painters, carpenters, electricians, brick layers, roofers, etc. For the most part, they perform their work at the site of construction, although they may also have shops where they perform work incidental to the job site.

General contractors in both the building and the heavy construction field usually assume responsibility for an entire construction project, but may subcontract to others all of the actual construction work or those portions of the project requiring special skills or equipment. Special trade contractors may work for general contractors, for other subcontractors, or may work directly for the owner of the property.

In addition to the industries classified in the SIC manual as Construction, this census also includes one industry

¹Standard Industrial Classification Manual: 1987. For sale by Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402. Stock No. 041-001-00314-2.

classified in the Real Estate area, SIC 6552, Land Subdividers and Developers, Except Cemeteries. These establishments are engaged in subdividing real property into lots and in developing it for sale on their own account.

Each establishment receiving a questionnaire was requested to report the percent of total dollar value of business done for each kind-of-business activity engaged in during 1987. This information was used for the computer assignment of appropriate industry classifications. During this work, various tests were also made using other data reported on the questionnaire. The proportion of construction work to total business was checked to verify that the establishment was primarily in construction. Also taken into consideration were the types of structures worked on during the year and the extent of work undertaken for other contractors.

Construction establishments often engage in various construction activities. It is necessary, however, to assign a single industry code to the establishment based on its major activity. Therefore, the statistics shown for an industry reflect not only the primary activity of the establishments in the industry, but also their secondary activities. The industry reports, however, do present data on the extent of secondary activities.

A revised edition of the SIC Manual was issued in 1987. Minor modifications were made to three industries in the construction sector: SIC 1611, Highway and Street Construction Contractors, Except Elevated Highways; SIC 1629, Heavy Construction Contractors, N.E.C; and SIC 1771, Concrete Work Special Trade Contractors. The extent of these modifications are explained in the specific texts for those industries. "Bridge tables" are also included showing selected data tabulated using both the previous classification system and the 1987 revision.

ESTABLISHMENT BASIS OF REPORTING

The census of construction industries is conducted on an establishment basis. A "construction establishment" is defined as a relatively permanent office or other place of business where the usual business activities related to construction are conducted. With some exceptions, a relatively permanent office is one which has been established for the management of more than one project or job and which is expected to be maintained on a continuing basis. Such "establishment" activities include, but are not limited to estimating, bidding, purchasing, supervising, and operation of the actual construction work being conducted at one or more construction sites. Separate construction reports were not required for each project or construction

Companies with more than one construction establishment were required to submit a separate report for each such establishment operated during all or any part of 1987. The census of construction industries figures represent a summary of records for individual establishments rather than for companies. The census tabulations, therefore, differ from those prepared on a company basis.

If an establishment engaged in construction and one or more distinctly different lines of economic activity (wholesale or retail trade, service, manufacturing, mining, etc.) at the same place of business, it was requested to file a separate report appropriate to each activity, provided that the activity was of substantial size and separate records were maintained or substantially accurate estimates could be prepared.

If a separate establishment report could not be prepared for each activity, then a construction report was requested covering all activities of that establishment providing that the 1987 value of construction work exceeded the gross receipts from each of its other activities.

Construction businesses with no payroll during 1987 (nonemployers) were not required to file census reports. Tabulation of data for these businesses are based on administrative records and are shown only in U.S. summary publications and the geographic area reports series. Refer to the section on "Sample Design" for details. Foreign construction activities were not included in this census.

SAMPLE DESIGN, ESTIMATION PROCEDURES, AND RELIABILITY OF ESTIMATES

The companies included in the 1987 Census of Construction Industries were identified as part of an operation common to all 1987 Economic Censuses. Construction companies were divided into employers (companies with payroll) and nonemployers (companies without payroll). Statistical information for the employers was obtained in the census by a survey which included all medium size and large employers and a sample of the smaller ones. Census reports were not required from the nonemployers. Statistics on them were obtained from administrative records of other agencies of the Federal Government.

Employer Companies

Developing the sampling frame for employer companies—This operation started with obtaining a list of all construction companies in the active records of the Internal Revenue Service (IRS) which were subject to payment of Federal Insurance Contributions Act taxes. The basic source for this list has been the Internal Revenue Service Business Master File, a comprehensive list of companies engaged in business activities in the United States. The file contains the name, address, and form of ownership of each company and also indicates whether or not the company is subject to the FICA. Each company in this file is assigned a unique employer identification (EI) number which it uses in filing its various reports with the IRS. The Social Security Administration (SSA) maintains a similar list using the same identification numbers, which also contains information on the industrial classification of each company. The Bureau of the Census obtained both of these lists and combined them.

Under special arrangements which safeguarded the confidentiality of the information, the Bureau also obtained administrative records data on payrolls and receipts and added these data to the combined list. The list, thus created from the IRS-SSA information, was a list of employer companies. However, for the 1987 Economic Censuses the basic reporting unit is the "establishment." Therefore, steps were taken to identify the individual establishments of those companies which operate more than one place of business. The information for making this determination was obtained by means of the Company Organization Survey (COS), an annual canvass of all known multiestablishment companies and large single-establishment companies. Thus, the 1987 Economic Census list for singleestablishment employer companies was obtained from the IRS-SSA, but the list of establishments of multiestablishment employer companies was obtained directly from those companies in the COS. Refer to the section on "Establishment Basis for Reporting" for details.

In general, the IRS-SSA list provided sufficient industrial classification data to assign a company to the proper economic census, but there were a number of companies for which this information was inadequate or unavailable. A special form, NC-9923, General Schedule, was mailed to all such companies, requesting information on the nature of the company's activities. From the information reported, the company was given an industrial classification code and assigned to the appropriate economic census. Since construction companies found in this way were identified only after the regular census mailing had taken place, they were treated as a supplement to the basic list.

Selecting the employer sample—The sample was designed to provide reliable State and metropolitan area estimates for each construction industry. It consisted of all construction establishments in multiestablishment companies, all single-establishment companies with estimated total employment of 20 employees or more, and a probability sample of single-establishment companies with estimated employment of fewer than 20 employees.

Supplementing the sample were construction companies identified from the NC-9923, General Schedule. Also affecting the sample were the misclassified companies; i.e., companies included in the samples of other trade areas which reported they were construction companies and companies originally classified in construction which reported they were not construction companies.

Of the 533,000 single-establishment employer companies initially classified as construction companies, 147,000 were included in the sample. All of the 13,000 establishments of multiestablishment companies were included in the sample. There was a net increase in the sample of 60,000 establishments resulting from establishments originally unclassified (receiving the NC-9923) or misclassified.

The probability sample of the smaller single-establishment companies was a stratified random sample. Strata were formed from all establishments with the same initial fourdigit SIC code, in the same State, in the same metropolitan

area or in the balance of the State, and in the same size class based on estimated total employment. If the four-digit SIC code for an establishment was incomplete, the establishment was placed in a stratum for miscellaneous companies. Because they were small, all companies were included in the sample for the following three industries: SIC 1622, Bridge, Tunnel, and Elevated Highway Construction Contractors; SIC 1795, Wrecking and Demolition Work Special Trade Contractors; and SIC 1796, Installation or Erection of Building Equipment Special Trade Contractors.

Estimation procedures for 1987 and 1982 data—Since all larger employer companies and some smaller ones were included in the census, sample estimation was required only for the universe of companies not selected with certainty. The published statistics are the totals of the estimates for the sampled companies and the aggregates for the certainty companies. All estimates for 1987 and 1982 published here are simple unbiased estimates of the form:

$$x'_{c} = \sum_{i=1}^{n} x_{i} / p_{i}$$

where: x' is the simple unbiased estimate of a characteristic for a publication cell.

x is the reported value of a characteristic for an individual establishment in the publication cell.

p; is the selection probability of that firm.

n_c is the number of firms in the sample for the

Data for certain characteristics were reported as a percentage of the dollar value of business done. Before this formula was applied to those characteristics, it was necessary to convert the reported percentages into dollars.

Reliability of employer statistics—Since the estimates for employer establishments in these reports are based on the samples, they are subject to sampling variability and may be expected to differ from results which would have been obtained if a complete census had been taken using the same forms and procedures. The sampling errors shown in the tables were estimated directly from the sample reports, using methods appropriate for the sample design and form of estimation used.

The relative standard error is a measure of sampling variability, i.e., the variation that might occur by chance because only a sample of the population is surveyed. As calculated for this report, the relative standard error also partially reflects the effect of random errors of response and processing, but it does not take into account the effect of any consistent biases due to those types of errors. The chances are about 68 out of 100 that an estimate from the

sample would differ from a complete census by less than the relative standard error. The chances are about 95 out of 100 that the difference is less than twice the relative standard error and about 99 out of 100 that it is less than 2-1/2 times the relative standard error. Individual estimates with large relative standard errors have been shown in the published tables. Any such estimates should be used with caution. The very large relative standard errors generally occur for the smaller estimates.

Relative standard errors have been calculated for all of the published statistics, although they are shown for each statistic only in the tables presenting detailed statistics. Other tables show relative standard errors only for certain characteristics because of lack of space.

As calculated for this report, the relative standard error measures certain nonsampling errors, but does not measure any systematic biases in the data. Bias is the difference, averaged over all possible samples with the same size and design, between the estimates and the true value being estimated. Nonsampling errors can be attributed to many sources: inability to obtain information about all cases in the sample; definitional difficulties; differences in interpretation of questions; inability or unwillingness of respondents to provide correct information; and errors made in processing the data. Although no direct measurements of the biases have been obtained, it is believed that most of the important response and operational errors were detected in the course of reviewing the data for reasonableness and consistency.

A potential source of bias is in the imputation for those establishments that have not responded by the time of final publication. Data were estimated for establishments that did not report by that date, although selected establishments were contacted again to obtain as much information on the telephone as possible. Some publication cells in which more than 40 percent of the data were not reported have been suppressed.

Nonemployer Companies

As described earlier, the information derived from the business income tax returns of all companies was matched to the census employer file on the basis of common identification numbers. Those business income tax returns which could not be matched, were further classified on the basis of several characteristics. Returns with characteristics consistent with companies without payroll were treated as nonemployers. The nonemployer construction companies were not required to file census reports.

For "number of establishments," each separate income tax return was assumed to be an establishment. "All business receipts" was based on receipts information reported on the tax return.

Since no sampling was involved in the nonemployer establishments, the statistics for nonemployers are not subject to sampling variability. However, these data are subject to an unknown amount of reporting and processing errors which could not be detected by the Census Bureau.

CENSUS REPORT FORMS

Information for the 1987 Census of Construction Industries was obtained from employer establishments primarily through the use of twenty-four questionnaires, determined by industry classification and size. Standard forms and short forms were developed for each of the following SIC groups: 15, 16, 171, 172, 173, 174, 175, 176, 177, 178, and 179 and for the establishments classified in SIC 6552. Establishments with 50 or more employees all received the standard form. A sub-sample of establishments with fewer than 50 employees received short forms instead of the standard forms. The short forms covered only major items and omitted some of the detail found in the longer forms.

In reviewing and developing the questionnaires, comments and recommendations were elicited from construction trade associations and appropriate advisory groups. The Bureau surveyed several thousand firms representing all economic activities to gain insight into the way companies maintain records and to see whether new information could be collected.

DATA PROCESSING

The 1987 census report forms were mailed out in December 1987. They were mailed from and returned to the Census Bureau's Data Preparation Division in Jeffersonville, Ind., where routine editing and coding of the report forms were also accomplished. Collection of these report forms was essentially completed in July 1988.

The returned reports underwent extensive processing. A preliminary edit done at the time of data entry identified obviously deficient reports and reports needing clarification. When necessary, these problems were resolved by further contact with the respondents. Next, the data were transmitted to Census Bureau headquarters near Washington, DC.

Data records, then, underwent a detailed computer review and analysis. The records containing significant problems were referred for further analytical review and, if necessary, contacts were made with the respondents. The computer performed most classification coding (such as industry coding, geographic coding, and size coding), and imputation for missing items or for reports not received in time for tabulation. The imputation was performed on an industry (or industry group)-State (or geographic group) basis using all available response and administrative data.

The data records were then tabulated on an industry basis. Industry totals were subjected to analytical review, and selected statistics were prepared for the preliminary reports. Corrections resulting from this review were made to the computer records and final tabulations were produced.

The review of a preliminary report for an industry often uncovered the need for corrections or revisions to the data for another industry for which a preliminary report had already been published. The final reports incorporate all

revisions and corrections made during the review of the preliminary reports and contain considerable more data than were published in those reports.

GEOGRAPHIC CLASSIFICATION

Information for the 1987 Census of Construction Industries' final industry report series is classified on the basis of two types of geographic distributions: (1) physical location of the establishment, and (2) location of construction work. A separate code was assigned on each basis allowing us to present data by both physical locations of the establishment and location of construction work.

The geographic area reports series presents similar data by industry for each State (physical location of the establishment) and for selected MSA's, CMSA's and PMSA's.

DUPLICATION IN VALUE OF CONSTRUCTION WORK

The aggregate of value of construction work reported by all construction establishments in each of the several industry, geographic area, or other groupings in this census, contains varying amounts of duplication, since the construction work of one firm may be subcontracted to other construction firms and also be included in the subcontractors' value of construction work. To avoid this duplication, a "net" value of construction work figure has been derived for each establishment by subtracting the costs for construction work subcontracted to others from the value of construction work.

Duplication in value of business between other construction and nonconstruction industries, results from the use of products of these other industries as input materials by construction establishments. "Value added," avoids this duplication and is, for most purposes, the best measure for comparing the relative economic importance of industries or areas. "Value added," is defined in the 1987 Census of Construction Industries as equal to dollar value of business done less costs for construction work subcontracted to others and payments for materials, components, supplies, and fuels. However, for SIC 6552 and SIC 1531 where land receipts are significant, land receipts are also subtracted from dollar value of business done.

SPECIAL TABULATIONS

Special tabulations of data collected in the 1987 Census of Construction Industries may be obtained on computer tape or in tabular form. The data will be in summary form and subject to the same rules prohibiting disclosure of confidential information (including name, address, kind of business, or other data for individual business establishments or companies) as are the regular publications.

Special tabulations are prepared on a cost basis. A request for a cost estimate, as well as exact and detailed specifications of the type and format of the data to be provided, should be directed to the Chief, Construction Statistics Division, Bureau of the Census, Washington, DC, 20233.

To discuss a special tabulation before submitting specifications, call 301-763-7546.

COMPARABILITY OF CENSUS OF CONSTRUCTION INDUSTRIES DATA WITH OTHER DATA

Data contained in the reports of the 1987 Census of Construction Industries are not the same as the data published in the Census Bureau's monthly Construction Reports, Series C30, Value of New Construction Put in Place. The main difference is that the C30 series covers all new construction put in place without regard to who is performing the construction activity, whereas the construction census figures cover both new construction and maintenance and repair work done by establishments classified in the construction industry. Significant amounts of construction are done by establishments classified outside of construction (in real estate, manufacturing, utilities and communications, for example), both as "force account" construction and construction done for others. In addition, the value in place series includes constructionrelated expenses such as architectural and engineering costs and the costs of materials supplied by owners which are normally not reflected in the Census of Construction.

Data contained in the reports of the census of construction industries may also differ from industry data in "Employment and Earnings Statistics," published by the Bureau of Labor Statistics, and "Statistics of Income," published by the Internal Revenue Service. These differences arise from varying definitions of scope, coverage, timing, classification, and methodology.

ABBREVIATIONS AND SYMBOLS

The following abbreviations and symbols are used in this publication:

- * Sampling error exceeds 40 percent.
- ** Represents the sum of all employees during pay periods including 12th of March, May, August, and November, divided by 4.
- Represents zero.
- † Represents value of construction work less costs for construction work subcontracted to others. (See Duplication in Value of Construction Work.)
- the Represents dollar value of business done less costs for construction work subcontracted to others, and costs for materials, components, supplies, and fuels. In SIC's 1531 and 6552, land receipts are also subtracted from dollar value of business done. (See Duplication in Value of Construction Work.)
- (D) Withheld to avoid disclosing data for individual companies; data are included in higher level totals.
- (NA) Not available.
- (S) Withheld because estimate did not meet publication standards on the basis of either the response rate, associated relative standard error, or a consistency review.
- (W) Greater than zero but less than 1 percent.
- (X) Not applicable.
- n.s.k. Not specified by kind.

Users' Guide for Locating Statistics in This Report by Table Number

| Statistics | For U.S. | By State | By employment size | By size class of dollar value of business done | By type, class, ownership, kind of business, and location of construction ¹ | By specialization in types of constuction |
|--|------------------------|-----------|--------------------------|--|---|--|
| Assets and depreciation (gross book value): Beginning of year—buildings, machinery and equipment. End of year—total End of year—buildings, machinery and equipment. Depreciation charges during year—buildings, machinery and equipment. | 3 1, 3 3 3 | 1 | 5 | 6 | | |
| Capital expenditures: Total capital expenditures New buildings—machinery and equipment Used buildings—machinery and equipment | 1, 3 3 3 | 1 | 5 | 6 | | |
| Communication services, costs for | 2 | | | | | |
| Employees: All employees—average number Construction workers—average number Other employees—average number | 1, 2 1, 2, 9 2 | 1 1, 9 | 5 | 6 | | 8 |
| Employer costs for fringe benefits—legally required and voluntary expenditures | 2 | | | | | |
| Establishments—number in business during year | 1, 2, 4, 9 | 1, 9 | 5 | 6 | | 8 |
| Hours—construction workers: TotalQuarterly | | 1, 9 9 | 5 | 6 | | |
| Inventories | 4 | | | | | |
| Materials, components, supplies, and fuels—costs for | 1, 2 | 1 | 5 | 6 | | |
| Payroll: First quarter, all employees. Annual: All employees. Construction workers | 1, 2 1, 2 | 1 1 | 5 | 6 | | 8 |
| Other employees | 2 | | | | | |
| Power, fuels, and lubricants—costs for | | | | | | |
| Proprietors and working partners | | 40 | | | | |
| Ratios, State Value and receipts: Dollar value of business done, total | 13 2 1, 2, 4 | 13 | 5 5 | 6 6 | 11 2, 7, 10 | 8 |
| For work subscontracted in from others Other business receipts and land receipts ² Net value of construction work Value added | 2 2 1, 2 1, 2 | 1 1 | 5 5 | 6 | | 8 |
| Rental costs: Total For machinery and equipment For buildings | | 1 | 5 | 6 | | |
| Repairs to buildings and other structures | 2 | | | | | |
| Repairs to machinery and equipment | 2 | | | | | |
| Selected industry ratios | 12 | | | | | |
| Subcontract work to others, costs for | 1, 2 | 1 | 5 | 6 | | 8 |

Note: Data for 1982 and earlier years are also available in some of these tables.

¹Type—buildings, roads, etc. Class—new construction; additions, alterations, or reconstruction; or maintenance and repair work. Ownership—private

or government owned.

²Land receipts are shown separately for SIC's 1531 and 6552 only.

CONTENTS

General Contractors-Industrial Buildings and Warehouses

[Page numbers listed here omit the prefix that appears as part of the number of each page] Page Ш -----Users' Guide for Locating Statistics in This Report by Table Number X Summary of Findings_____ **FIGURES** Value of Construction Work by Type of Construction Selected Costs Per Dollar Value of Business Done **TABLES** Statistics for Establishments With Payroll General Statistics by State: 1987 and 1982 2. 3. 5. 11. Selected Industry Ratios: 1987 and 1982 12. Selected Industry Ratios by State: 1987 ______ Statistics for Establishments Without Payroll appear in the U.S. Industry Summary Report. **APPENDIXES** ______ Standard Industrial Classification Titles for Industry Groups and Industries _____ B. Geographic Divisions and States Publication Program _____ Inside back cover

SUMMARY OF FINDINGS

Establishments classified in this industry are primarily engaged in the construction of industrial buildings such as aluminum plants, automobile assembly plants, pharmaceutical manufacturing plants and commercial warehouses (including new work, additions, alterations, remodeling, and repair). For additional examples, refer to the 1987 Standard Industrial Classification (SIC) Manual published by the Office of Management and Budget, Executive Office of the President.

During 1987, the establishments with paid employees classified in this industry accounted for \$22.3 billion in total dollar value of business. Of this amount, \$21.5 billion were for the value of construction work. These establishments paid out \$4.9 billion for materials, components, and supplies and \$10.4 billion for construction work subcontracted to others. Costs for selected power, fuels, and lubricants for this industry were \$171 million. Value added for 1987 was \$6.9 billion.

There were 7,014 establishments with total employment averaging 143,001 during the year. Total payroll for 1987 was \$3.6 billion. Total hours worked by construction workers during the year were 195 million hours.

Larger establishments with 20 employees or more, while representing only 21 percent of the total number of employer establishments in this industry accounted for 79 percent of all business done.

A "construction establishment" is defined as a relatively permanent office, or other place of business, where the usual business activities related to construction are conducted. A separate census report was required from each sampled establishment covering domestic operations. Separate reports were not, however, required for each project or construction site.

In 1987, the value of construction work was collected to better measure actual construction activity done during the year. Construction receipts, as reported in earlier censuses, may have included the value of work done before or after the calendar year and may have excluded the value of work in progress during the calendar year. Receipts may have also excluded work done by builders engaged in construction for sale on their own account or for their own use. All dollar values are shown in current dollars for the years specified and have not been adjusted for inflation.

The data in this report are estimated from a sample survey and are subject to sampling variability as well as errors of response and nonreporting. The relative standard error shown in the tables is a measure of sampling variability. Descriptions of the sampling, estimating procedures, and data reliability are included in the Introduction.

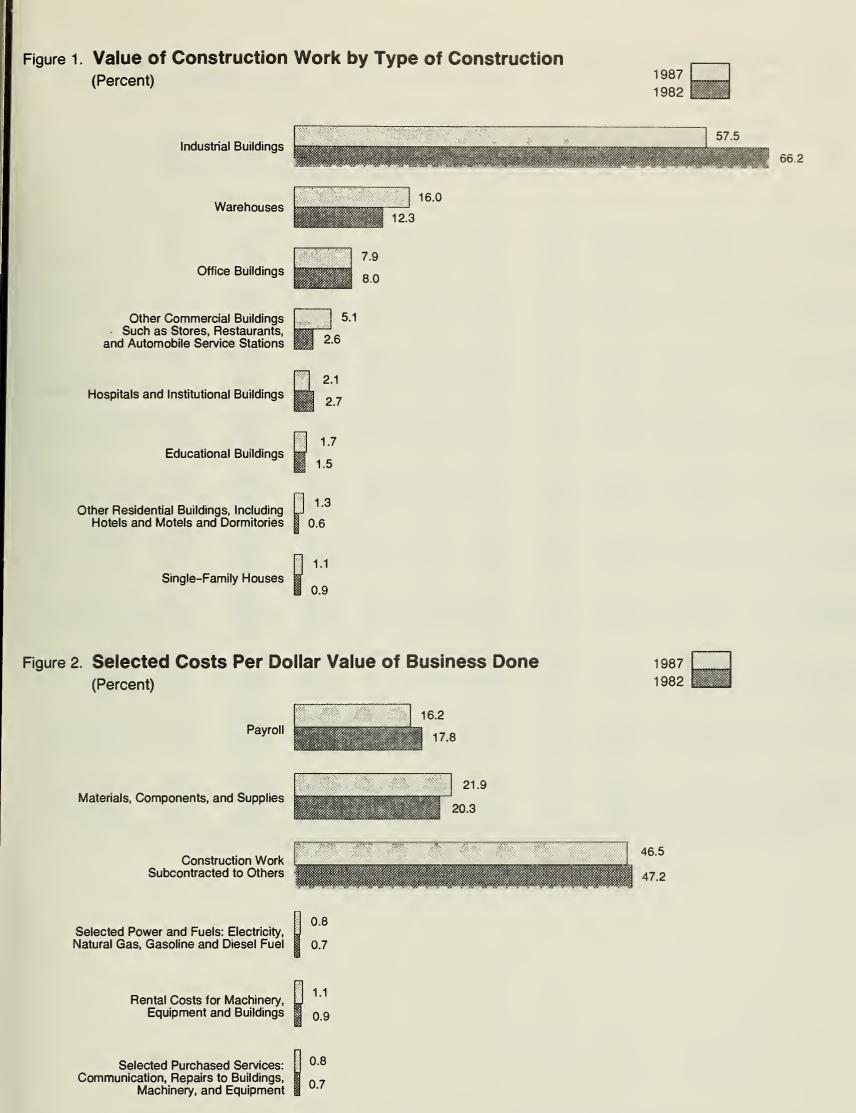


Table 1. General Statistics for Establishments With Payroll by State: 1987 and 1982

| | 1987 | | | | | | | |
|---|--------------------------|---------|----------------------|------------------|----------------------|--|-------------------------------------|---------------------------------|
| | | Emplo | yees** | Pay | /roll | | | Al . |
| Location of establishment | Number of establishments | All | Construction workers | All employees | Construction workers | Construction worker hours (thousands) | Value of construction work | Net value of construction work† |
| | A | В | С | D | E | F | G | н |
| United States | 7 014 | 143 001 | 110 7 85 | 3 618 878 | 2 496 936 | 1 95 425 | 21 461 568 | 11 094 502 |
| AlabamaAlaskaArizonaArkansasArizonia | 109 | 8 758 | 7 977 | 233 218 | 217 960 | 14 249 | 584 147 | (D) |
| | 43 | 361 | 246 | 12 375 | 8 709 | 406 | 55 960 | 39 303 |
| | 88 | 1 087 | 728 | 25 535 | 15 362 | 1 379 | 185 471 | 90 295 |
| | 39 | 1 017 | 823 | 20 550 | 15 061 | 1 711 | 85 364 | 55 863 |
| | 797 | 11 169 | 8 013 | 343 702 | 218 446 | 13 263 | 2 643 336 | 1 236 091 |
| Colorado Connecticut Delaware District of Columbia Florida | 79 | 1 125 | 833 | 27 095 | 17 350 | 1 700 | 143 897 | 66 011 |
| | 105 | 1 356 | 1 012 | 36 396 | 25 558 | 1 824 | 193 194 | 117 257 |
| | 30 | 427 | 314 | 7 876 | 5 622 | 501 | 41 939 | 26 880 |
| | 3 | (S) | (S) | (S) | (S) | (S) | (S) | (S) |
| | 348 | 4 548 | 3 360 | 90 851 | 59 471 | 6 141 | 595 060 | 320 904 |
| Georgia | 214 | 5 219 | 4 097 | 104 672 | 69 443 | 6 875 | 674 156 | 381 653 |
| | 17 | 373 | 265 | 12 061 | 8 339 | 474 | 73 971 | 38 164 |
| | 49 | 2 238 | 1 092 | (D) | 32 793 | 1 595 | (D) | 41 179 |
| | 275 | 4 808 | 3 514 | (D) | 91 065 | 5 893 | 776 477 | 340 718 |
| | 218 | 4 554 | 3 717 | 119 811 | 91 491 | 6 124 | 577 711 | 356 329 |
| lowaKansasKentuckyLouisiana | 103 | 1 565 | 1 229 | 30 666 | 22 493 | 2 163 | 149 205 | 104 890 |
| | 88 | 1 248 | 908 | 25 997 | 16 288 | 1 819 | 163 750 | 101 978 |
| | 83 | 2 493 | 1 975 | 58 189 | 43 012 | 3 908 | 318 885 | 164 260 |
| | 112 | 1 898 | 1 537 | 35 583 | 24 826 | 2 690 | 155 487 | 115 124 |
| | *20 | 365 | 249 | 7 794 | 4 384 | *508 | 66 774 | 31 340 |
| Maryland | 110 | 2 327 | 1 925 | 49 136 | 36 754 | 3 846 | 246 329 | 163 036 |
| | 169 | 3 148 | 2 263 | 82 553 | 51 094 | 3 956 | 607 382 | 283 315 |
| | 278 | 5 925 | 4 509 | 168 246 | 101 088 | 7 797 | 1 140 377 | 378 669 |
| | 102 | 1 603 | 1 216 | 40 705 | 24 809 | 2 109 | 289 067 | 194 127 |
| | 88 | 1 204 | 958 | 20 262 | 14 394 | 1 711 | 144 574 | 96 588 |
| Missoun Montana Nebraska Nevada New Hampshire | 168 | 4 963 | 3 757 | 144 303 | 101 394 | 7 223 | 962 729 | 516 763 |
| | *21 | *168 | *122 | 3 007 | 2 091 | *114 | 25 765 | 11 835 |
| | 51 | 737 | 558 | 14 753 | 10 561 | 1 078 | 86 354 | 54 742 |
| | 28 | 540 | 403 | 13 716 | 10 436 | 683 | 115 753 | 47 876 |
| | 33 | 764 | 564 | 20 235 | 12 884 | 957 | (D) | 75 580 |
| New Jersey | 309 | 3 915 | 2 796 | 109 522 | 68 698 | 4 963 | 696 373 | 364 316 |
| | 63 | 643 | 476 | 11 640 | 8 069 | 687 | 77 820 | 41 793 |
| | 423 | 7 435 | 5 544 | 227 625 | 154 584 | 10 464 | 1 171 459 | 645 940 |
| | 190 | 8 606 | 6 974 | 204 628 | 130 228 | 12 608 | 1 248 633 | 578 969 |
| | 30 | 366 | 283 | 7 182 | 4 737 | 547 | 32 143 | 24 608 |
| OhioOklahomaOregonPennsylvaniaRhode Island | 380 | 6 328 | 4 734 | 166 359 | 114 941 | 8 504 | 1 026 470 | 518 783 |
| | 53 | 592 | 476 | 13 644 | 10 608 | 939 | 57 246 | 36 769 |
| | 84 | 1 068 | 814 | 24 392 | 15 437 | 1 193 | 129 056 | 87 069 |
| | 318 | 7 009 | 5 476 | 176 571 | 112 717 | 9 249 | (D) | (D) |
| | 51 | 950 | 666 | 26 998 | 16 758 | 1 090 | 269 141 | 91 483 |
| South Carolina South Dakota Tennessee Texas Utah | 114 | 6 181 | 4 940 | 170 616 | 129 030 | 8 764 | 1 272 287 | 764 238 |
| | 16 | 227 | 171 | 4 177 | 2 852 | 242 | 21 672 | 13 734 |
| | 137 | 3 864 | 3 192 | 73 106 | 55 141 | 5 768 | 438 788 | 263 364 |
| | 389 | 10 411 | 8 698 | 214 658 | 165 680 | 14 911 | 810 846 | 531 361 |
| | 74 | 726 | 556 | 16 756 | 11 953 | 1 024 | 109 874 | 58 157 |
| Vermont Virginia Washington West Virginia Wisconsin Wyoming | 11 | 278 | 219 | 6 788 | 4 310 | 544 | 40 920 | 19 922 |
| | 120 | 2 753 | 2 183 | 53 650 | 35 922 | 3 747 | 392 775 | 166 645 |
| | 144 | 1 878 | 1 370 | 50 627 | 32 633 | 2 291 | 329 949 | 163 555 |
| | 49 | 685 | 582 | 14 631 | 11 690 | 901 | 53 197 | 41 347 |
| | 155 | 2 830 | 2 258 | 73 096 | 54 672 | 4 015 | 369 335 | 208 072 |
| | *14 | 153 | 104 | 3 333 | 1 860 | 209 | 20 108 | 10 273 |

In earlier censuses, construction receipts only were collected. In 1987, the value of construction work was collected to better measure actual construction activity done during the year.

| | | 1987— | Con. | | | 1982 | | | | | | |
|------------------|--|--|---|--|---|--------------------|------------------------------|------------------|--------------|---|------------|--------------------------------------|
| Value added†† | Cost of materials, components, supplies, and fuels | Cost of construction work sub-contracted to others | Rental cost for machinery, equipment, and buildings | Capital expenditures, other than land | End-of-year gross book value of depreciable assets | All employees** | Total construction receipts¹ | Value added†† | error (pe | ve stan of estin rcent) f olumn— | nate or | Location of establish- ment |
| 1 | J | К | L | М | N | 0 | Р | Q | В | Н | М | |
| 6 881 749 | 5 068 052 | 10 367 065 | 24 5 2 38 | 206 643 | 1 382 253 | 153 821 | 17 834 735 | 5 755 674 | 1 | 1 | 2 | U.S. |
| 321 037 | (D) | (D) | 7 422 | 4 265 | 22 323 | 8 429 | 629 783 | 244 421 | 2 | (D) | 25 | AL |
| 25 622 | (D) | 16 656 | 632 | 1 376 | 9 186 | 812 | 55 225 | 24 416 | 15 | 15 | 8 | AK |
| 55 587 | 39 177 | 95 175 | 2 072 | 1 398 | 11 970 | 827 | 127 550 | 41 197 | 7 | 10 | 39 | AZ |
| 29 723 | 27 229 | 29 501 | 1 177 | 748 | 14 310 | 987 | 81 766 | 33 009 | 8 | 7 | 16 | AR |
| 761 244 | 534 146 | 1 407 245 | 31 283 | 19 404 | 120 917 | 11 234 | 2 304 475 | 863 859 | 3 | 2 | 4 | CA |
| 49 684 | 26 969 | 77 886 | 2 404 | 1 650 | 14 865 | 2 591 | 467 452 | 85 534 | 7 | 7 | 10 | CO |
| 82 871 | 44 173 | 75 937 | 1 765 | 3 825 | 22 234 | 1 022 | 110 877 | 38 449 | 10 | 10 | 9 | CT |
| 15 859 | (D) | 15 059 | 537 | (D) | 3 047 | 626 | 65 673 | 17 266 | 11 | 3 | (D) | DE |
| (S) | (S) | (S) | (S) | (S) | (S) | (S) | (S) | (S) | (S) | (S) | (S) | DC |
| 170 901 | 161 228 | 274 156 | 7 821 | 5 681 | 34 756 | 5 036 | 505 501 | 125 992 | 5 | 5 | 14 | FL |
| 240 091 | 162 513 | 292 503 | 5 960 | 7 011 | 40 680 | 3 979 | 390 692 | 96 888 | 3 | 3 | 11 | GA |
| 28 240 | (D) | 35 807 | 1 052 | 790 | 11 582 | 337 | 50 559 | 19 452 | 10 | 6 | 18 | HI |
| 134 661 | 116 857 | (D) | 5 054 | 743 | *21 236 | 496 | 49 601 | 15 906 | 3 | 11 | 33 | ID |
| 203 067 | 170 294 | 435 759 | 6 152 | 4 166 | 43 903 | 5 986 | 830 067 | 251 813 | 4 | 3 | 14 | IL |
| 197 201 | 170 315 | 221 382 | 4 906 | 5 783 | 52 230 | 6 098 | 453 907 | 153 901 | 3 | 3 | 7 | IN |
| 54 356 | 52 153 | 44 315 | 1 059 | 1 998 | 17 525 | 2 169 | 170 109 | 53 753 | 8 | 7 | 30 | IA |
| 48 113 | 55 920 | 61 772 | 1 473 | 1 010 | 16 507 | 1 281 | 110 314 | 47 044 | 9 | 12 | 10 | KS |
| 99 086 | 89 246 | 154 624 | 4 316 | 2 682 | 20 541 | 1 890 | 189 297 | 72 655 | 5 | 6 | 7 | KY |
| 73 682 | 42 792 | 40 362 | 3 771 | 901 | 13 684 | 5 518 | 352 575 | 174 964 | 8 | 8 | 10 | LA |
| 13 692 | 18 041 | 35 434 | 667 | 618 | *11 614 | 469 | 29 422 | 7 493 | 29 | 23 | 23 | ME |
| 110 129 | 54 605 | 83 293 | 3 116 | 4 307 | 20 798 | 1 364 | 159 110 | 34 273 | 95369 | 5 | 7 | MD |
| 164 943 | 126 912 | 324 067 | 9 484 | 5 383 | 28 747 | 3 008 | 417 897 | 105 759 | | 5 | 15 | MA |
| 352 453 | 202 022 | 761 708 | 10 992 | 7 096 | 56 294 | 4 594 | 1 454 673 | 314 304 | | 4 | 8 | MI |
| 109 654 | 86 198 | 94 939 | 5 030 | 1 319 | 21 762 | 1 748 | 185 071 | 51 031 | | 4 | 11 | MN |
| 40 221 | 56 473 | 47 985 | 836 | *441 | 7 911 | 1 466 | 113 693 | 38 412 | | 7 | 42 | MS |
| 358 337 | 180 625 | 445 966 | 5 827 | 9 355 | 73 204 | 6 288 | 861 383 | 258 877 | 4 | 2 | 3 | MO |
| 6 672 | (D) | 13 929 | (S) | (S) | (D) | 232 | 35 231 | 10 212 | 42 | 27 | (S) | MT |
| 28 269 | 26 599 | 31 611 | 434 | 1 458 | 12 000 | 795 | 48 567 | 16 912 | 13 | 18 | 21 | NE |
| 33 494 | 18 455 | 67 877 | 735 | 1 209 | 5 646 | 223 | 33 813 | 8 511 | 9 | 11 | 37 | NV |
| 33 391 | (D) | (D) | 409 | (D) | (D) | 422 | 35 993 | 11 177 | 4 | 4 | (D) | NH |
| 227 424 | 157 163 | 332 057 | 7 870 | 7 103 | 49 405 | 3 650 | 430 318 | 133 479 | 5 | 5 | 18 | NJ |
| 25 675 | 16 892 | 36 026 | 1 029 | *622 | *8 849 | 921 | 87 363 | 24 113 | 14 | 13 | 51 | NM |
| 435 828 | 232 233 | 525 519 | 17 576 | 35 615 | 83 957 | 5 744 | 694 180 | 234 401 | 4 | 4 | 3 | NY |
| 257 847 | 329 755 | 669 664 | 25 183 | 15 693 | 115 784 | 9 738 | 900 657 | 345 895 | 2 | 2 | 6 | NC |
| 10 027 | 14 799 | 7 534 | 389 | *368 | 3 074 | 718 | 59 461 | 15 421 | 19 | 16 | 42 | ND |
| 306 643 | 248 166 | 507 686 | 10 768 | 12 122 | 67 859 | 7 384 | 822 126 | 269 223 | 3 | 3 | 5 | OH |
| 21 728 | 17 811 | 20 476 | 551 | 543 | 5 990 | 1 253 | 122 244 | 32 820 | 13 | 14 | 3 | OK |
| 50 410 | 38 789 | 41 986 | 1 106 | *1 050 | 9 515 | 788 | 80 671 | 28 600 | 12 | 10 | 45 | OR |
| 307 851 | 238 363 | 372 309 | 9 924 | 9 665 | 55 713 | 6 600 | 804 314 | 275 787 | 3 | (D) | 7 | PA |
| 41 493 | 51 488 | 177 658 | 1 932 | 2 191 | 8 876 | 319 | 34 748 | 18 744 | 11 | 6 | 11 | RI |
| 443 024 | 344 600 | 508 049 | 13 790 | 2 252 | 20 457 | 5 267 | 372 059 | 153 672 | 2 | 1 | 16 | SC |
| 7 861 | (D) | 7 937 | 163 | 305 | 4 922 | 232 | 12 970 | 5 837 | 13 | 14 | 40 | SD |
| 168 375 | 123 174 | 175 423 | 3 723 | 2 874 | 35 152 | 3 620 | 327 812 | 106 351 | 4 | 4 | 7 | TN |
| 323 973 | 228 496 | 279 485 | 11 114 | 5 507 | 50 495 | 15 375 | 1 519 445 | 545 955 | 2 | 3 | 8 | TX |
| 32 195 | 26 691 | 51 717 | 1 684 | 996 | 9 086 | 1 078 | 124 620 | 29 791 | 12 | 11 | 27 | UT |
| 10 680 | 9 827 | 20 998 | 269 | 374 | 4 554 | 573 | 54 608 | 16 344 | 12 | 15 | 33 | VT |
| 98 034 | 78 248 | 226 130 | 3 129 | 3 594 | 37 285 | 4 299 | 402 766 | 80 340 | 5 | 7 | 10 | VA |
| 97 038 | 72 943 | 166 393 | 4 254 | 1 420 | 20 745 | 2 233 | 293 383 | 82 364 | 5 | 6 | 15 | WA |
| 28 778 | 13 383 | 11 850 | 884 | 930 | 6 274 | 1 030 | 73 905 | 38 017 | 10 | 13 | 38 | WV |
| 134 820 | 94 711 | 161 263 | 2 220 | 5 011 | 36 332 | 2 691 | 259 789 | 88 047 | 8 | 11 | 27 | WI |
| 5 795 | 5 000 | 9 834 | *223 | 305 | 2 166 | 127 | 11 402 | 4 983 | 31 | 30 | 30 | WY |

Table 2. Detailed Statistics for Establishments With Payroll: 1987 and Earlier Census Years

| | | | planation of ten | | _ | ive stan | dard er | ror of |
|--|-------------------------|-------------------------|-------------------------|------------------------|------|--------------|--------------|--------------|
| Item | | | | | e | stimate | (percer | it) |
| | 1987 | 1982 | 1977 | 1972 | 1987 | 1982 | 1977 | 1972 |
| Number of establishments in business during year | 7 014 | 7 435 | 8 259 | 9 538 | 2 | 1 | 2 | 2 |
| Proprietors and working partners | 962 | 1 359 | 2 867 | 3 976 | 8 | 5 | 5 | 5 |
| All employees** | 143 001 | 153 821 | 202 070 | 173 094 | 1 | 1 | (W) | 1 |
| Construction workers: | | | | | | | | |
| March May | 104 202 108 678 | 117 040 124 264 | 151 301 169 142 | 129 778 139 413 | 1 1 | 1 1 | (W) | 1 |
| AugustNovember | 116 929 113 322 | 126 577 115 135 | 184 358 177 970 | 156 317 148 975 | 1 1 | 1 1 | (W) | 1 |
| Average | 110 785 | 121 517 | 170 787 | 144 625 | 1 | 1 | (W) | 1 |
| Other employees: March | 31 640 | 32 238 | 30 337 | 27 762 | 1 | | ١, | |
| May | 32 008 | (NA) | (NA) | (NA) | 1 | (NA) | (NA) | (NA) |
| August November | 32 609 32 616 | (NA) (NA) | (NA) (NA) | (NA) (NA) | 1 1 | (NA) (NA) | (NA) (NA) | (NA) (NA) |
| Average | 32 215 | (NA) | (NA) | (NA) | 1 | (NA) | (NA) | (NA) |
| Construction worker hours (thousands): January to March | 45 056 | 52 797 | (NA) | (NA) | 1 | | (NA) | (NA) |
| April to June | 48 232 | 57 128 | (NA) | (NA) | 1 | 1 | (NA) | (NA) (NA) |
| July to SeptemberOctober to December | 51 738 50 397 | 58 127 51 426 | (NA) (NA) | (NA) (NA) | 1 1 | 1 | (NA) (NA) | (NA) |
| Total hours worked | 195 425 | 219 480 | (NA) | (NA) | 1 | (W) | (NA) | (NA) |
| Payroll, all employees | 3 618 878 2 496 936 | 3 231 000 2 344 085 | 2 852 817 2 247 193 | 1 729 634 1 356 140 | 1 | (W) (W) | (W) | 1 |
| Payroll, construction workersPayroll, other employees | 1 121 942 | 886 914 | 605 623 | 373 494 | 1 | 1 | (W) (W) | 1 |
| First quarter payroll, all employees | 833 713 | 770 770 | 594 176 | (NA) | 1 | (W) | (W) | (NA) |
| Employer costs for fringe benefits, all employees | 862 348 554 902 | 581 050 | 539 369 | (NA) (NA) | 1 | (W) (W) | (W) | (NA) (NA) |
| Legally required expenditures Voluntary expenditures | 307 446 | 432 397 148 652 | 315 495 223 875 | (NA) | 71 | 1 | (W) (W) | (NA) |
| Dollar value of business done | 22 316 867 | 18 107 888 | 13 063 111 | 8 666 746 | 1 | (W) (W) | 1 | 1 |
| Value of construction work¹ | 21 461 568 1 143 085 | 17 834 735 835 351 | 12 855 514 351 937 | 8 507 370 236 831 | 1 3 | 2 | (W) | 3 |
| Land receipts ² Other business receipts | (NA) 855 299 | (NA) 273 153 | (NA) 207 597 | (NA) 159 376 | (NA) | (NA) | (NA) | (NA) 2 |
| Net value of construction work† | 11 094 502 | 9 293 778 | 7 545 253 | 4 805 838 | 1 | (W) | (W) | 1 |
| Value added†† | 6 881 749 | 5 755 674 | 4 257 546 | 2 751 905 | 1 | (W) | (W) | 1 |
| Selected costs | 15 435 118 | 12 352 213 | 8 805 565 | 5 914 841 | 1 | (W) | 1 | 1 |
| Materials, components, and supplies ³ | 4 897 508 | 3 680 814 | 3 377 489 | 2 213 309 3 701 532 | 1 | 1 | (w) | i |
| Construction work subcontracted to othersSelected power, fuels, and lubricants | 170 543 | 8 540 956 130 442 | 5 310 261 117 815 | (NA) | 1 2 | (W) | 1 | (NA) |
| ElectricityNatural gas | 29 785 9 366 | 23 988 7 158 | 21 841 10 203 | (NA) (NA) | 1 | 1 | | (NA) (NA) |
| Gasoline and diesel fuelOn highway use | 119 340 96 819 | 90 585 (NA) | 65 433 (NA) | (NA) (NA) | 2 | (NA) | (NA) | (NA) (NA) |
| Off highway useOff highway useOther, including lubricating oils and greases | 22 520 12 051 | (NA) (NA) 8 710 | (NA) (NA) 20 338 | (NA) (NA) | 10 | (NA) 2 | (NA) 1 | (NA) (NA) |
| Rental cost for machinery, equipment, and buildings | 245 238 | 163 301 | 135 838 | (NA) | 1 | | 1 | (NA) |
| For machinery and equipmentFor buildings | 174 985 70 252 | 129 922 33 379 | 114 051 21 787 | 72 513 (NA) | 2 2 | 1 2 | 1 | (NA) |
| Selected purchased services | 171 554 | 127 122 | 109 938 | (NA) | 1 | 1 | 2 | (NA) |
| Communication services | 60 352 | 43 916 | 40 783 | (NA) | 1 | 1 | 5 | (NA) |
| Repairs to buildings and other structures | 13 647 97 554 | 8 500 74 705 | 8 403 60 751 | (NA) (NA) | 3 | 1 | 1 | (NA) (NA) |
| Ownership of construction projects: | | | | | | | 6 | |
| Value of construction work ¹ | 21 461 568 3 464 059 | 17 834 735 2 204 610 | 12 855 514 1 343 270 | 8 507 370 1 375 323 | 1 | (W) | (W) | 1 |
| FederalState and local | 1 536 865 1 927 194 | (NA) (NA) | (NA) (NA) | (NA) (NA) | 2 2 | (NA) | (NA) (NA) | (NA) (NA) |
| Privately owned | 17 997 508 | 15 630 124 | 11 512 244 | 7 132 047 | 1 | (NA) (W) | 1 | 1 |

¹In earlier censuses, construction receipts only were collected. In 1987, the value of construction work was collected to better measure actual construction activity done during the year.
²Data were collected separately for establishments classified in SIC 1531, Operative Builders, and SIC 6552, Subdividers and Developers, Except Cemeteries. For all other industries, data are included in other business receipts.
³For 1972, includes data for power, fuels, and lubricants.

Table 3. Assets, Capital Expenditures, and Depreciation for Establishments With Payroll: 1987 and 1982

| ltem | | | | l error of estimate cent) |
|--|---|---|------------------------|----------------------------|
| | 1987 | 1982 | 1987 | 1982 |
| BUILDINGS AND OTHER STRUCTURES, MACHINERY, AND EQUIPMENT | | | | |
| Beginning-of-year gross book value of depreciable assets Capital expenditures, other than land New Used Retirements and disposition of depreciable assets | 1 263 969 206 643 165 243 41 399 88 359 | 1 600 265 166 244 132 342 33 901 61 740 | 22253 | 1 1 1 3 5 |
| End-of-year gross book value of depreciable assets | 1 382 253 | 1 704 769 | 2 | 1 |
| Depreciation charges during year | 154 276 | 193 523 | 2 | 1 |
| Buildings and other Structures, Additions, and Related Facilities | | | | |
| Beginning-of-year gross book value of depreciable assets Capital expenditures, other than land New buildings and other structures Used buildings and other structures. Retirements and disposition of depreciable assets | 335 495 38 761 34 110 4 651 17 679 | 364 628 36 278 29 508 6 770 13 793 | 4 4 4 11 8 | 2 3 3 3 19 |
| End-of-year gross book value of depreciable assets | 356 577 | 387 113 | 4 | 2 |
| Depreciation charges during year | 28 166 | 29 053 | 5 | 2 |
| Machinery and Equipment | | | | |
| Beginning-of-year gross book value of depreciable assets Capital expenditures, other than land New machinery and equipment, including automobiles and trucks New automobiles and trucks, intended primarily for highway use Used machinery and equipment, including automobiles and trucks Retirements and disposition of depreciable assets | 928 474 167 881 131 133 55 362 36 748 70 680 | 1 235 754 129 966 102 834 38 125 27 131 48 064 | 222353 | 1 2 1 3 4 2 |
| End-of-year gross book value of depreciable assets | 1 025 675 | 1 317 656 | 2 | 1 |
| Depreciation charges during year | 126 110 | 164 469 | 2 | 1 |

Table 4. Value of Inventories for Establishments With Payroll: 1987 and 1986

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

| Item | Establishments with payroll | Relative standard error of estimate (percent) |
|--|--|---|
| All establishments: Number Value of construction work | 7 014 21 461 568 | 2 |
| Establishments with inventories: Number Value of construction work Inventories': End of 1987, materials and supplies End of 1986, materials and supplies | 2 773 7 828 848 104 093 142 034 | 4 1 7 9 |
| Establishments with no inventories: Number Value of construction work | 3 435 10 635 283 | 4 |
| Establishments not reporting: Number Value of construction work | 806 2 997 437 | 6 2 |

^{*}Inventories at cost or market prior to any adjustment to correct to LIFO values.

Table 5. Selected Statistics for Establishments With Payroll by Employment Size Class: 1987 and 1982

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

| 7 | | Establishments with an average of— | | | | | | | | |
|--|--|---|---|---|---|---|---|---|---|---|
| Selected statistics | Total | 1 to 4 employees | 5 to 9 employees | 10 to 19 employees | 20 to 49 employees | 50 to 99 employees | 100 to 249 employees | 250 to 499 employees | 500 to 999 employees | 1,000 employees or more |
| 1987 | | | | | | | | | | |
| Number of establishments All employees** Payroll, all employees Construction worker hours (thousands) Dollar value of business done Value of construction work¹ Net value of construction work† | 7 014 143 001 3 618 878 195 425 22 316 867 21 461 568 11 094 502 | 2 566 5 847 106 747 5 876 1 032 038 998 067 573 653 | 1 606 10 672 206 827 11 793 1 314 269 1 279 393 747 019 | 1 336 17 786 397 977 22 068 2 448 626 2 417 274 1 405 523 | 1 008 30 313 732 379 41 883 4 433 096 4 348 923 2 348 572 | 304 20 367 513 061 28 142 3 317 906 3 233 935 1 662 987 | 149 22 599 604 920 33 946 4 051 146 3 884 650 1 824 984 | 25 8 897 273 056 13 574 2 446 944 1 568 865 651 796 | 8 5 044 159 233 7 070 (D) 3 730 460 351 741 | 9 21 471 624 675 31 070 3 272 840 (D) 1 528 225 |
| Value added†† | 6 881 749 5 068 052 10 367 065 245 238 206 643 1 382 253 | 310 626 296 998 424 413 11 276 9 003 74 468 | 457 969 323 927 532 373 18 755 15 381 137 481 | 840 076 596 799 1 011 751 28 965 28 995 206 176 | 1 428 642 1 004 103 2 000 350 46 170 39 254 347 586 | 933 141 813 817 1 570 947 33 971 22 743 187 458 | 1 141 456 850 024 2 059 666 42 776 30 066 169 509 | 721 039 360 339 917 069 17 449 40 904 114 912 | (D) 822 043 1 850 494 3 546 4 825 50 727 | 1 048 800 (D) (D) 42 328 15 469 93 932 |
| 1982 | | | | | | | | | | |
| All employees** Total construction receipts¹ Value added†† | 153 821 17 834 735 5 755 674 | 6 138 563 758 174 488 | 11 356 1 069 927 367 741 | 18 611 1 871 921 600 296 | 32 826 3 881 230 1 158 514 | 22 378 2 607 320 840 575 | 20 405 2 442 554 650 764 | 10 064 970 572 322 205 | 10 344 2 420 988 803 557 | 21 697 2 006 464 837 531 |
| 1987 RELATIVE STANDARD ERROR OF ESTIMATE (PERCENT) | | | | | | | | | | |
| All employees** Net value of construction work† Capital expenditures, other than land | 1 1 2 | 5 6 14 | 5 4 12 | 3 3 7 | 2 2 5 | (W) 1 | (%) (%) | (V) (V) (V) | (W) (W) (W) | (W) (W) (W) |

Note: Underscored data fields include data from adjoining columns which have been withheld to avoid disclosing data for individual companies.

In earlier censuses, construction receipts only were collected. In 1987, the value of construction work was collected to better measure actual construction activity done during the year.

Table 6. Selected Statistics by Size Class of the Dollar Value of Business Done for Establishments With Payroll: 1987 and 1982

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

| | | | Establishments with dollar value of business done | | | | | | | | |
|--|--|--|---|--|--|---|--|---|---|---|---|
| Selected statistics | Total | Less than \$25,000 | \$25,000 to \$49,999 | \$50,000 to \$99,999 | \$100,000 to \$249,999 | \$250,000 to \$499,999 | \$500,000 to \$999,999 | \$1,000,000 to \$2,499,999 | \$2,500,000 to \$4,999,999 | \$5,000,000 to \$9,999,999 | \$10,000,000 or more |
| 1987 | | | | | | | | | | | |
| Number of establishments All employees** Payroll, all employees Construction worker hours (thousands) Dollar value of business done Value of construction work! Net value of construction work† | 7 014 143 001 3 618 878 195 425 22 316 867 21 461 568 11 094 502 | (9) (9) (9) (9) (9) (9) (9) (9) | (S) | 397 901 9 118 940 30 195 29 367 25 245 | 957 3 844 47 994 4 398 170 755 165 883 132 230 | 1 276 7 014 109 550 7 823 448 865 436 265 332 668 | 1 103 8 978 172 697 10 426 797 825 771 825 524 786 | 1 435 19 954 434 281 26 479 2 276 098 2 230 515 1 419 556 | 728 20 063 472 283 28 065 2 484 786 2 442 564 1 519 380 | 383 16 362 412 993 22 888 2 697 551 2 643 736 1 361 826 | 372 65 417 1 956 661 94 085 13 402 069 12 733 147 5 772 270 |
| Value added†† | 6 881 749 5 068 052 10 367 065 | (S) (S) (S) | (S) (S) (S) | 17 162 8 911 4 122 | 81 618 55 483 33 652 | 207 360 137 908 103 597 | 303 917 246 882 247 039 | 850 992 614 147 810 959 | 902 800 658 801 923 183 | 797 306 618 334 1 281 910 | 3 716 149 2 725 042 6 960 877 |
| Rental cost for machinery, equipment, and buildings Capital expenditures, other than land End-of-year gross book value of depreciable assets | 245 238 206 643 1 382 253 | (S) (S) (S) | (S) (S) (S) | 564 *560 4 718 | 3 242 3 217 37 103 | 10 563 11 189 69 284 | 10 307 12 295 98 177 | 28 943 27 821 231 467 | 29 058 23 047 192 355 | 29 951 24 763 192 169 | 132 564 103 741 555 562 |
| 1982 | | | | | | | | | | | |
| All employees** Total construction receipts¹ Value added†† | 153 821 17 834 735 5 755 674 | 394 4 440 1 737 | 562 11 080 4 665 | 1 386 44 506 20 932 | 5 251 207 035 93 280 | 7 592 434 474 183 734 | 11 122 739 611 291 430 | 22 679 2 044 597 688 412 | 20 302 2 096 631 673 189 | 20 761 2 599 495 821 223 | 63 770 9 652 864 2 977 069 |
| 1987 RELATIVE STANDARD ERROR OF ESTIMATE (PERCENT) | | | | | | | | | | | |
| All employees** Net value of construction work† Capital expenditures, other than land | 1 1 2 | (S) (S) (S) | (S) (S) (S) | 14 12 53 | 9 8 21 | 7 6 15 | 5 5 13 | 3 3 7 | 2 3 7 | 1 2 4 | (W) (W) (W) |

Note: Underscored data fields include data from adjoining columns which have been withheld to avoid disclosing data for individual companies.

In earlier censuses construction receipts only were collected. In 1987, the value of construction work was collected to better measure actual construction activity done during the year.

Table 7. Value of Construction Work for Establishments With Payroll by Type of Construction: 1987 and 1982

| | | Value of cons | truction work1 | | | | | |
|--|--|---|---|---|---|---|--|---|
| Type of construction | Total | New construction | Additions, alterations, or reconstruction ² | Maintenance and repair | | elative sta of estimate for col | e (percen | |
| | А | В | С | D | Α | В | С | D |
| 1987 | | | | | | | | |
| Value of construction work ¹ | 21 461 568 | 15 455 435 | 4 247 698 | 1 536 161 | 1 | 1 | 1 | 1 |
| Building construction Single-family houses Single-family houses, detached Single-family houses, attached Other residential buildings, including hotels and motels Hotels and motels Other residential buildings, excluding hotels and motels Other buildings | 20 386 878 227 510 183 864 43 645 283 754 178 705 105 049 1 688 344 | 14 829 588 150 298 116 921 33 377 231 650 150 987 80 662 1 272 576 | 4 082 287 58 626 52 825 5 800 47 973 26 805 21 167 380 166 | 1 475 002 18 585 14 117 4 467 4 131 912 3 219 35 601 | 1 4 5 4 1 2 3 | 1 5 6 4 1 1 3 | 1 6 6 15 4 6 6 2 | 1 8 8 19 10 30 9 7 |
| Other commercial buildings such as stores, restaurants, and automobile service stations Industrial buildings and warehouses | 1 098 192 15 777 425 12 346 040 3 431 385 358 045 440 284 513 324 | 833 992 11 481 842 8 600 367 2 881 475 229 839 247 050 382 341 | 226 967 2 954 814 2 489 655 465 158 115 926 188 150 109 665 | 37 233 1 340 768 1 256 017 84 751 12 279 5 083 21 332 | 1 1 1 2 2 1 1 | 1 1 2 2 1 | 3 1 1 3 3 2 12 | 4 1 1 5 7 11 |
| Nonbuilding construction | 852 418 | 625 848 | 165 411 | 61 159 | 1 | 1 | 1 | 4 |
| Construction work, n.s.k. | 222 271 | (NA) | (NA) | (NA) | 3 | (NA) | (NA) | (NA) |
| 1982 | | | | | | | | |
| Value of construction work¹ | 17 834 735 | 15 320 160 | (NA) | 1 257 287 | (W) | (W) | (NA) | 1 |
| Building construction Single-family houses Single-family houses, detached Single-family houses, attached Apartment buildings with two or more apartments Other residential buildings, including hotels and motels Hotels and motels Other residential buildings, excluding hotels and motels Office buildings Office buildings Other commercial buildings such as stores, restaurants, and automobile service stations Industrial buildings and warehouses | 17 348 328 168 365 105 870 62 494 164 967 113 073 (NA) (NA) 1 431 186 463 703 13 997 926 | 14 964 673 132 590 73 148 59 442 152 084 107 257 (NA) (NA) 1 327 286 419 998 11 901 488 | (NA) (NA) (NA) (NA) (NA) (NA) (NA) (NA) | 1 191 827 17 887 16 361 1 526 6 441 2 908 (NA) (NA) 51 950 21 852 1 048 219 | (W) 3 4 4 2 2 (NA) (NA) 1 | (X) 3 4 4 2 2 (X) | (NA) (NA) (NA) (NA) (NA) (NA) (NA) (NA) | 1 6 6 19 13 8 (NA) (NA) 4 |
| Industrial buildings Warehouses Religious buildings Educational buildings Hospitals and institutional buildings Other nonresidential buildings | 11 803 981 2 193 945 105 746 267 626 480 445 155 296 | 9 937 181 1 964 306 94 953 241 683 449 397 25 448 | (NA) (NA) (NA) (NA) (NA) (NA) | 933 400 114 819 5 396 12 971 15 524 3 178 | (W) 1 2 2 (W) 9 | (W) 1 2 2 (W) 10 | (NA) (NA) (NA) (NA) (NA) (NA) | 1 3 5 8 3 17 |
| Power plants Sewage treatment and water treatment plants Other nonbuilding construction | 6 315 116 707 357 028 | 4 246 111 595 61 974 | (NA) (NA) (NA) (NA) | 1 034 2 556 17 769 | (W) (W) | (W) (W) | (NA) (NA) (NA) | (W) (W) 4 |
| Construction work, n.s.k. | 6 356 | 4 241 | (NA) | 1 057 | 16 | 18 | (NA) | (NA) |

¹In earlier censuses, construction receipts only were collected. In 1987, the value of construction work was collected to better measure actual construction activity done during the year.
²In 1982, data for additions, alterations, or reconstruction were collected separately for SiC 1521, 1522, 1531, 1541, and 1542. For all other industries, data are included with "New construction."

Table 8. Selected Statistics for Establishments With Payroll by Specialization in Types of Construction: 1987

[Thousand dollars. Detail may not add to total due to rounding. This table presents selected statistics for establishments according to degree of specialization in major types of construction work. If number of establishments or value of construction work for a given type of specialization are relatively insignificant, data may not be shown. In addition, data are not shown in this table where distribution of the value of construction work by type of construction was not provided in table 7. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see

| | | | | | onstruction ork | Net | | Cost of construction | stan | lelative dard ei estima | rror |
|--|--|--|--|--|--|--|--|--|----------------------------|-------------------------------|----------------------------|
| Item | Number of establishments | All employees** | Payroll, all employees | For all types | For specialized type | value of construction work† | Value added†† | work sub- contracted to others | | rcent) f olumn – | |
| | А | В | С | D | Ε | F | G | Н | В | D | Н |
| All establishments | 7 014 | 143 001 | 3 618 878 | 21 461 568 | 12 095 480 | 11 094 502 | 6 881 749 | 10 367 065 | 1 | 1 | 1 |
| Establishments not specializing by type Establishments specializing 51 percent or more | 1 634 5 379 | 38 192 104 808 | 985 412 2 633 465 | 6 706 564 14 755 003 | (NA) 12 095 480 | 2 998 584 8 095 918 | 1 727 718 5 154 031 | 3 707 980 6 659 085 | 1 | 1 | 1 |
| INDUSTRIAL BUILDINGS | | | | | | | | | | | |
| All establishments specializing in type | 3 766 | 85 380 | 2 200 324 | 11 816 680 | 9 784 581 | 6 424 258 | 4 176 419 | 5 392 422 | 1 | 1 | 1 |
| Establishments with — 100 percent specialization 90 to 99 percent specialization 80 to 89 percent specialization 70 to 79 percent specialization 60 to 69 percent specialization 51 to 59 percent specialization | 1 815 319 327 457 489 357 | 41 078 7 214 8 055 8 309 14 227 6 495 | 1 050 060 178 471 208 356 204 857 389 893 168 686 | 4 634 040 1 141 816 1 134 934 1 392 664 2 314 356 1 198 868 | 4 634 040 1 057 841 937 931 1 018 434 1 487 006 649 328 | 2 969 298 645 840 574 193 694 092 923 502 617 331 | 1 897 214 430 913 405 611 419 707 624 991 397 981 | 1 664 742 495 975 560 741 698 572 1 390 854 581 537 | 133324 | 2 3 2 2 1 3 | 2 4 2 2 1 3 |
| WAREHOUSES | | | | | | | | | | | |
| All establishments specializing in type | 1 143 | 15 278 | 338 611 | 2 461 416 | 1 883 413 | 1 362 473 | 780 286 | 1 098 942 | 3 | 2 | 3 |
| Establishments with — 100 percent specialization 90 to 99 percent specialization 80 to 89 percent specialization 70 to 79 percent specialization 60 to 69 percent specialization 51 to 59 percent specialization | 396 120 120 187 194 123 | 4 281 1 623 2 109 2 095 2 661 2 507 | 85 049 35 146 58 165 42 896 56 520 60 834 | 494 767 226 576 462 064 398 534 433 353 446 119 | 494 767 215 311 379 883 285 684 265 338 242 427 | 318 167 129 400 219 777 182 258 281 182 231 687 | 180 776 74 082 111 874 86 888 197 441 129 223 | 176 600 97 175 242 287 216 275 152 171 214 432 | 6 6 8 7 7 6 | 6 5 4 8 5 6 | 9 5 3 8 7 7 |

Table 9. Quarterly Construction Worker Hours and Employment for Establishments With

| | | Average | _ | January | to March | April to | June |
|--|--------------------------|--------------------------------------|---|--------------------------------------|--------------------------|-----------------------------------|--------------------------|
| Location of establishment | Number of establishments | number of construction workers | Construction worker hours (thousands) | Construction workers ¹ | Hours worked (thousands) | Construction workers ¹ | Hours worked (thousands) |
| | Α | В | С | D | E | F | G |
| United States | 7 014 | 110 785 | 195 425 | 104 202 | 45 056 | 108 678 | 48 232 |
| Alabama Alaska Anizona Arkansas California | 109 | 7 977 | 14 249 | 8 593 | 3 624 | 8 324 | 3 909 |
| | 43 | 246 | 406 | 65 | 30 | 176 | 61 |
| | 88 | 728 | 1 379 | 723 | 330 | 759 | 340 |
| | 39 | 823 | 1 711 | 780 | 391 | 816 | 418 |
| | 797 | 8 013 | 13 263 | 7 394 | 2 973 | 7 956 | 3 294 |
| Colorado Connecticut Delaware District of Columbia Florida | 79 | 833 | 1 700 | 693 | 345 | 824 | 412 |
| | 105 | 1 012 | 1 824 | 871 | 403 | 1 004 | 471 |
| | 30 | 314 | 501 | 296 | 112 | 317 | 124 |
| | 3 | (S) | (S) | (S) | (S) | (S) | (S) |
| | 348 | 3 360 | 6 141 | 3 368 | 1 465 | 3 326 | 1 469 |
| Georgia Hawaii Idaho Illinois Indiana | 214 | 4 097 | 6 875 | 3 979 | 1 557 | 4 076 | 1 731 |
| | 17 | 265 | 474 | 267 | 115 | 261 | 115 |
| | 49 | 1 092 | 1 595 | 945 | 276 | 1 099 | 438 |
| | 275 | 3 514 | 5 893 | 3 276 | 1 355 | 3 346 | 1 438 |
| | 218 | 3 717 | 6 124 | 3 311 | 1 305 | 3 410 | 1 407 |
| lowa | 103 | 1 229 | 2 163 | 973 | 399 | 1 183 | 564 |
| Kansas | 88 | 908 | 1 819 | 823 | 401 | 951 | 458 |
| Kentucky | 83 | 1 975 | 3 908 | 1 820 | 885 | 1 960 | 971 |
| Louisiana | 112 | 1 537 | 2 690 | 1 428 | 641 | 1 487 | 646 |
| Maine | *20 | 249 | *508 | 227 | *131 | 272 | *131 |
| Maryland | 110 | 1 925 | 3 846 | 1 745 | 863 | 1 953 | 972 |
| | 169 | 2 263 | 3 956 | 2 158 | 926 | 2 225 | 985 |
| | 278 | 4 509 | 7 797 | 4 164 | 1 823 | 4 535 | 1 950 |
| | 102 | 1 216 | 2 109 | 1 071 | 451 | 1 235 | 517 |
| | 88 | 958 | 1 711 | 927 | 412 | 928 | 408 |
| Missouri | 168 | 3 757 | 7 223 | 3 931 | 1 979 | 3 874 | 1 975 |
| | *21 | *122 | *114 | *121 | *17 | *126 | *26 |
| | 51 | 558 | 1 078 | 432 | 208 | 504 | 245 |
| | 28 | 403 | 683 | 378 | 146 | 327 | -134 |
| | 33 | 564 | 957 | 608 | 248 | 580 | 261 |
| New Jersey | 309 | 2 796 | 4 963 | 2 458 | 1 106 | 2 70 5 | 1 218 |
| | 63 | 476 | 687 | 432 | 146 | 479 | 182 |
| | 423 | 5 544 | 10 464 | 4 827 | 2 196 | 5 122 | 2 336 |
| | 190 | 6 974 | 12 608 | 7 109 | 3 160 | 6 594 | 2 939 |
| | 30 | 283 | 547 | 179 | 97 | 240 | 118 |
| OhioOklahomaOregonPennsylvaniaRhode Island | 380 | 4 734 | 8 504 | 4 148 | 1 878 | 4 663 | 2 078 |
| | 53 | 476 | 939 | 440 | 206 | 449 | 228 |
| | 84 | 814 | 1 193 | 711 | 262 | 687 | 259 |
| | 318 | 5 476 | 9 249 | 4 950 | 2 072 | 5 370 | 2 300 |
| | 51 | 666 | 1 090 | 567 | 244 | 635 | 266 |
| South Carolina | 114 | 4 940 | 8 764 | 4 565 | 1 975 | 5 021 | 2 199 |
| | 16 | 171 | 242 | 122 | 55 | 186 | 89 |
| | 137 | 3 192 | 5 768 | 3 123 | 1 426 | 3 090 | 1 418 |
| | 389 | 8 698 | 14 911 | 8 972 | 3 808 | 8 595 | 3 754 |
| | 74 | 556 | 1 024 | 538 | 241 | 544 | 231 |
| Vermont | 11 | 219 | 544 | 193 | 116 | 205 | 132 |
| | 120 | 2 183 | 3 747 | 2 039 | 832 | 2 153 | 899 |
| | 144 | 1 370 | 2 291 | 1 052 | 461 | 1 272 | 516 |
| | 49 | 582 | 901 | 535 | 189 | 522 | 208 |
| | 155 | 2 258 | 4 015 | 1 711 | 695 | 2 118 | 941 |
| | *14 | 104 | 209 | 79 | 48 | 76 | 40 |

¹Construction workers during pay periods including 12th of March, May, August, and November.

Payroll by State: 1987

| July to September October to December | | December | | | | | | | | | | | | |
|---|---------------------------------------|---|---------------------------------------|---|------------------------|------------------------|------------------------|------------------------|-------------------|------------------------|--------------------------------------|-----------------------|------------------------|----------------------------|
| Construction workers ¹ | Hours worked (thousands) | Construction workers ¹ | Hours worked (thousands) | Relative standard error of estimate (percent) for column— | | | | | | | Location of establish- ment | | | |
| н | 1 | J | К | В | С | D | Е | F | G | н | ı | J | К | mont |
| 116 929 | 51 7 38 | 113 322 | 50 397 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | U.S. |
| 7 798 | 3 263 | 7 192 | 3 451 | 2 | 3 | 2 | 3 | 2 | 3 | 2 | 3 | 3 | 3 | AL |
| 473 | 212 | 272 | 100 | 15 | 19 | 11 | 29 | 18 | 24 | 19 | 15 | 14 | 25 | AK |
| 716 | 360 | 713 | 347 | 6 | 8 | 7 | 9 | 8 | 9 | 5 | 8 | 6 | 8 | AZ |
| 897 | 506 | 801 | 394 | 8 | 12 | 8 | 11 | 8 | 11 | 7 | 11 | 12 | 15 | AR |
| 8 500 | 3 437 | 8 204 | 3 558 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | CA |
| 965 | 497 | 836 | 445 | 8 | 10 | 14 | 16 | 9 | 12 | 8 | 11 | 5 | 7 | CO |
| 1 098 | 470 | 1 076 | 479 | 10 | 9 | 11 | 9 | 10 | 9 | 10 | 9 | 8 | 9 | CT |
| 335 | 137 | 309 | 126 | 5 | 13 | 4 | 13 | 7 | 14 | 6 | 14 | 3 | 12 | DE |
| (S) | (S) | (S) | (S) | (S) | (S) | (S) | (S) | (S) | (S) | (S) | (S) | (S) | (S) | DC |
| 3 324 | 1 545 | 3 423 | 1 660 | 5 | 6 | 5 | 6 | 6 | 7 | 5 | 7 | 4 | 7 | FL |
| 4 260 266 1 069 3 709 4 060 | 1 820 121 384 1 594 1 700 | 4 075 267 1 257 3 726 4 087 | 1 765 121 495 1 506 1 710 | 3 10 4 4 3 | 5 14 5 4 4 | 3 10 3 4 4 | 5 13 5 4 4 | 4 10 6 4 3 | 5 15 5 4 | 3 12 5 4 3 | 5 18 8 4 4 | 3 9 2 4 3 | 5 11 4 4 4 | GA HI ID IL IN |
| 1 407 | 639 | 1 355 | 560 | 9 | 11 | 7 | 8 | 11 | 14 | 10 | 14 | 9 | 12 | IA |
| 977 | 515 | 882 | 444 | 9 | 9 | 10 | 9 | 9 | 8 | 9 | 9 | 9 | 9 | KS |
| 2 088 | 1 064 | 2 033 | 986 | 5 | 6 | 6 | 8 | 4 | 6 | 5 | 6 | 6 | 7 | KY |
| 1 735 | 739 | 1 497 | 663 | 8 | 8 | 8 | 9 | 7 | 9 | 10 | 9 | 8 | 6 | LA |
| 274 | *128 | 225 | *116 | 31 | 48 | 32 | 52 | 32 | 50 | 31 | 44 | 29 | 47 | ME |
| 2 101 | 1 072 | 1 899 | 937 | 9 | 9 | 11 | 10 | 9 | 10 | 9 | 9 | 8 | 9 | MD |
| 2 384 | 1 066 | 2 287 | 978 | 4 | 6 | 5 | 6 | 4 | 6 | 5 | 8 | 5 | 7 | MA |
| 4 781 | 2 070 | 4 557 | 1 952 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 3 | 4 | MI |
| 1 453 | 638 | 1 105 | 502 | 6 | 9 | 8 | 11 | 6 | 10 | 7 | 9 | 5 | 10 | MN |
| 1 009 | 457 | 970 | 433 | 9 | 11 | 10 | 12 | 9 | 12 | 11 | 12 | 8 | 10 | MS |
| 3 974 | 1 822 | 3 247 | 1 447 | 4 | 4 | 3 | 3 | 4 | 5 | 5 | 5 | 7 | 5 | MO |
| *118 | *24 | 122 | *45 | 48 | 51 | 63 | 42 | 45 | 51 | 51 | 52 | 39 | 55 | MT |
| 666 | 329 | 631 | 294 | 12 | 17 | 12 | 20 | 12 | 19 | 13 | 17 | 11 | 16 | NE |
| 446 | 192 | 460 | 209 | 9 | 13 | 8 | 12 | 13 | 17 | 8 | 12 | 8 | 15 | NV |
| 542 | 225 | 528 | 222 | 4 | 5 | 6 | 7 | 6 | 6 | 2 | 4 | 2 | 3 | NH |
| 2 945 | 1 335 | 3 076 | 1 302 | 5 | 8 | 5 | 8 | 5 | 8 | 5 | 8 | 6 | 8 | NJ |
| 495 | 170 | 499 | 188 | 14 | 14 | 14 | 16 | 11 | 14 | 18 | 14 | 14 | 14 | NM |
| 6 006 | 2 973 | 6 220 | 2 958 | 5 | 7 | 9 | 16 | 6 | 9 | 4 | 5 | 4 | 4 | NY |
| 7 085 | 3 216 | 7 108 | 3 292 | 2 | 3 | 2 | 2 | 2 | 3 | 2 | 3 | 2 | 3 | NC |
| 430 | 203 | 283 | 130 | 19 | 23 | 16 | 23 | 19 | 26 | 22 | 22 | 21 | 22 | ND |
| 5 226 | 2 330 | 4 900 | 2 216 | 3 | 5 | 3 | 5 | 3 | 5 | 3 | 5 | 3 | 5 | OH |
| 533 | 261 | 485 | 242 | 13 | 15 | 16 | 19 | 14 | 17 | 10 | 14 | 13 | 13 | OK |
| 894 | 321 | 965 | 350 | 12 | 11 | 14 | 11 | 11 | 9 | 11 | 12 | 15 | 14 | OR |
| 6 011 | 2 524 | 5 576 | 2 351 | 3 | 4 | 3 | 4 | 3 | 4 | 3 | 4 | 3 | 4 | PA |
| 802 | 305 | 661 | 273 | 13 | 12 | 9 | 11 | 10 | 11 | 19 | 15 | 13 | 13 | RI |
| 5 246 | 2 357 | 4 930 | 2 230 | 2 | 3 | 2 | 3 | 2 | 3 | 2 | 3 | 2 | 3 | SC |
| 189 | 66 | 187 | 51 | 13 | 33 | 18 | 37 | 15 | 37 | 13 | 31 | 8 | 29 | SD |
| 3 251 | 1 488 | 3 302 | 1 436 | 4 | 5 | 4 | 5 | 4 | 5 | 4 | 5 | 5 | 5 | TN |
| 8 394 | 3 623 | 8 830 | 3 726 | 2 | 3 | 2 | 3 | 2 | 3 | 2 | 3 | 2 | 3 | TX |
| 557 | 289 | 584 | 261 | 11 | 13 | 16 | 16 | 13 | 12 | 10 | 17 | 14 | 11 | UT |
| 230 | 140 | 247 | 154 | 12 | 19 | 8 | 17 | 13 | 19 | 12 | 20 | 16 | 21 | VT |
| 2 249 | 1 016 | 2 291 | 999 | 5 | 6 | 6 | 6 | 5 | 6 | 6 | 7 | 5 | 6 | VA |
| 1 645 | 615 | 1 513 | 698 | 5 | 7 | 6 | 8 | 6 | 7 | 6 | 8 | 4 | 6 | WA |
| 606 | 234 | 665 | 269 | 10 | 16 | 9 | 15 | 10 | 17 | 10 | 16 | 11 | 15 | WV |
| 2 492 | 1 159 | 2 710 | 1 218 | 8 | 7 | 9 | 6 | 9 | 9 | 9 | 9 | 7 | 7 | WI |
| 95 | 50 | 165 | 70 | 30 | 36 | 30 | 36 | 26 | 35 | 24 | 33 | 37 | 39 | WI |

Table 10. Value of Construction Work for Establishments With Payroll by Location of Construction Work: 1987 and 1982

| · | | | | | | | | | | |
|---|---|--|---|--|---|---|---|---|------------------------------|----------------------------------|
| Location of construction work | | Construction work done by establishments located in this State | | Construction work done by establishments not located in this State | | 1982 | Percent change 1987 | Relative standard error of estimate (percent) for | | nate or |
| | | Number | Value of construction work | Number | Value of construction work | construction receipts for work done in this State ¹ | (col A) to 1982 (col F) | co | olumn— | |
| | Α | В | С | D | E | F | G | Α | С | E |
| United States | 21 461 568 | 6 890 | 16 856 456 | 2 266 | 4 605 111 | 17 834 73 5 | 20.3 | 1 | 1 | 1 |
| AlabamaAlaskaArizonaArkansasCalifornia | 252 542 73 651 217 121 118 531 2 742 037 | 107 43 88 39 796 | 193 832 (D) 185 471 76 741 2 540 857 | 35 7 33 57 44 | 58 710 (D) 31 650 41 790 201 179 | 258 426 57 877 237 066 117 141 2 407 698 | -2.3 27.3 -8.4 1.2 13.9 | 5 9 11 7 2 | 6 (D) 12 11 2 | 1 (D) 4 7 2 |
| Colorado Connecticut Delaware District of Columbia Florida | 153 100 223 261 52 581 34 173 693 870 | 78 104 30 *3 347 | 129 634 186 140 32 366 *4 488 530 907 | 27 28 59 27 46 | 23 465 37 120 20 214 29 684 162 962 | 367 130 114 322 72 412 35 667 630 864 | -58.3 95.3 -27.4 -4.2 10.0 | 6 7 6 8 4 | 5 8 1 63 5 | 19 1 16 1 2 |
| Georgia Hawaii Idaho Illinois | 818 557 75 491 80 809 932 263 585 238 | 214 17 49 274 217 | 607 696 73 971 76 121 705 566 527 632 | 94 *19 8 78 82 | 210 861 1 520 4 688 226 697 57 605 | 511 946 52 505 47 425 856 057 478 071 | 59.9 43.8 70.4 8.9 22.4 | 3 13 2 3 | 3 3 14 3 3 | 1 16 (W) 1 3 |
| lowa Kansas Kentucky Louisiana Maine | 158 927 162 911 357 807 194 783 72 942 | 94 78 75 112 *20 | 114 264 84 917 254 599 148 414 65 307 | 47 46 62 17 7 | *44 662 77 993 103 207 46 369 7 635 | 189 593 132 695 248 261 477 907 39 639 | -16.2 22.8 44.1 -59.2 84.0 | 13 6 4 6 19 | 7 11 5 8 21 | 44 3 5 (W) (W) |
| Maryland Massachusetts Michigan Minnesota Mississippi | 236 239 801 684 2 127 126 284 378 162 068 | 109 169 277 94 88 | 187 038 (D) (D) 272 739 130 351 | 89 32 97 44 34 | 49 201 (D) (D) 11 638 31 716 | 210 112 436 010 1 195 228 181 445 134 528 | 12.4 83.9 78.0 56.7 20.5 | 5 3 1 6 7 | 6 (D) (D) 7 9 | 5 (D) (D) 6 2 |
| Missouri | 573 068 20 023 79 288 137 292 53 550 | 153 *20 51 28 25 | 521 316 10 466 74 229 111 873 46 452 | 85 26 20 10 11 | 51 751 9 556 5 059 25 418 7 098 | 937 498 45 224 64 323 40 922 34 700 | -38.9 -55.7 23.3 235.5 54.3 | 3 16 15 6 3 | 3 30 16 7 3 | 5 11 6 11 4 |
| New Jersey | 745 473 90 511 1 457 370 703 135 34 377 | 308 63 421 189 30 | 652 797 77 252 1 125 961 574 070 26 257 | 61 17 64 78 *16 | 92 675 13 259 331 409 129 065 8 119 | 418 774 115 154 671 587 505 001 72 430 | 78.0 -21.4 117.0 39.2 -52.5 | 4 11 2 3 16 | 4 13 3 3 18 | 2 1 1 1 37 |
| Ohio Oklahoma Oregon Pennsylvania Rhode Island | 1 046 716 70 744 147 618 908 025 127 365 | 372 44 84 308 51 | 934 032 41 507 120 231 841 179 (D) | 110 40 46 81 3 | 112 683 29 237 27 386 66 846 (D) | 652 349 219 416 90 411 760 802 31 771 | 60.5 -67.8 63.3 19.4 300.9 | 2 9 8 3 7 | 3 15 9 3 (D) | 1 7 7 4 (D) |
| South CarolinaSouth Dakota | 534 751 21 118 589 492 886 285 97 884 | 112 16 136 374 74 | 398 063 19 365 366 841 720 354 96 110 | 70 6 49 68 32 | 136 688 1 752 222 650 165 930 1 774 | 374 761 12 854 344 890 1 574 942 116 951 | 42.7 64.3 70.9 -43.7 -16.3 | 1 16 2 3 8 | 2 18 3 4 8 | (W) (W) 1 17 |
| Vermont Virginia Washington West Virginia Wisconsin Wyoming | 38 930 602 337 349 666 98 056 406 645 29 733 | 11 119 142 49 151 | 35 663 349 033 307 856 43 551 354 000 18 664 | 5 63 46 46 46 27 | 3 266 253 304 *41 810 54 505 52 644 11 069 | 51 126 430 211 385 343 93 371 252 295 47 575 | -23.9 40.0 -9.3 5.0 61.2 -37.5 | 8 3 9 4 10 13 | 9 6 8 9 12 17 | (W) (W) 45 2 2 22 |

¹In earlier censuses, construction receipts only were collected. In 1987, the value of construction work was collected to better measure actual construction activity done during the year.

Table 11. Dollar Value of Business Done for Establishments With Payroll by Kind of Business Activity: 1987 and 1982

[Thousand dollars. Detail may not add to total due to rounding. Based on their primary business ectivity or combinetion of ectivities, establishments were classified into this specific industry. These establishments, however, mey also be engaged in other kinds of business activities. For meening of ebbrevietions end symbols, see introductory text. For explenetion of terms, see eppendixes]

| Primary and other kinds of business activities | Dollar value of | Relative standard error of estimate (percent) | | |
|---|--|---|---|--|
| | 1987 | 1982 | 1987 | 1982 |
| All kinds of business | 22 316 867 | 18 107 888 | 1 | (W) |
| General building contractor Operative builder Residential remodeling contractor Highway end street construction Carpentry contractor Concrete construction Millwright Other construction activities Manufecturing Investment builder Other ectivities Kind of business activity, n.s.k. | 20 570 340 48 337 74 026 22 861 6 929 10 546 19 561 732 284 95 455 71 999 505 957 158 572 | 14 778 024 53 948 31 516 128 514 55 144 89 678 2 844 (3 3 986 50 605 (S) | 1 13 7 4 3 6 1 6 3 8 3 3 | (W) 3 7 1 5 4 6 (S) 3 5 (S) (S) |

In earlier censuses, construction receipts only were collected. In 1987, the value of construction work wes collected to better measure ectual construction activity done during the yeer.

Table 12. Selected Industry Ratios for Establishments With Payroll: 1987 and 1982

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

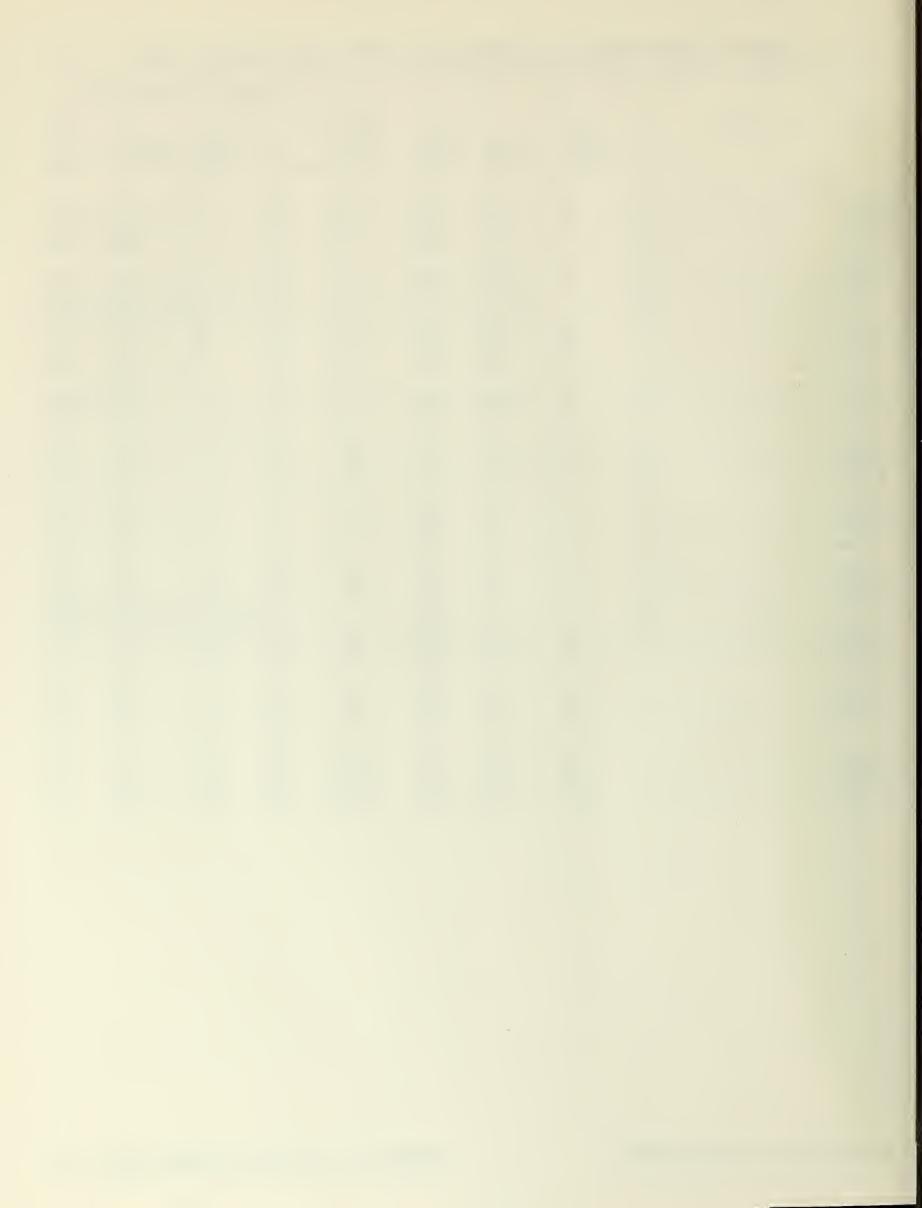
| Selected statistics | 1987 | 1982 | Relative standard error of estimate (percent) for 1987 |
|---|---|---|--|
| AVERAGE PER ESTABLISHMENT | | | |
| Number of employees** | 20.4 15.8 4.6 516.0 356.0 160.0 | 20.7 16.3 (NA) 434.6 315.3 119.3 | 2 2 2 2 2 2 2 |
| Dollar value of business done | 3 181.8 3 059.8 722.6 1 478.1 35.0 29.5 197.1 | 2 435.5 2 398.8 512.6 1 148.7 22.0 22.4 229.3 | 2 2 2 2 2 2 2 2 |
| AVERAGE PER EMPLOYEE Payroll, all employees | 25.3 156.1 48.1 | 21.0 117.7 37.4 | (W) 1 1 |
| AVERAGE PER CONSTRUCTION WORKER Payroll, construction workers | 22.5 193.7 1 764.0 | 19.3 146.8 1 806.2 | (W) 1 1 |
| AVERAGE PER OTHER EMPLOYEE Payroll, other employees\$1,000 | 34.8 | (NA) | 1 |
| AVERAGE PER DOLLAR VALUE OF CONSTRUCTION WORK ¹ | 34.0 | (IVA) | |
| Payroll, all employees Cost of materials, components, supplies, and fuels Cost of construction work subcontracted to others Rental cost for machinery, equipment, and buildings | .169 .236 .483 .011 | .181 .214 .479 .009 | (W) (W) (W) |

¹In earlier censuses, construction receipts only were collected. In 1987, the value of construction work was collected to better measure actual construction activity done during the year.

Table 13. Selected Industry Ratios for Establishments With Payroll by State: 1987

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

| | | | | | Average per dollar of value of construction work | | | | | |
|--|---|---|---|--|--|--|--|--|--|--|
| Location of establishment | Average number of employees** per estab- lishment | Payroll per employee (\$1,000) | Construction worker hours per construction worker | Value of construction work per construction worker (\$1,000) | Payroll, all employees | Cost of materials, components, supplies, and fuels | Cost of construction work sub-contracted to others | Rental cost for machinery, equipment, and buildings | | |
| United States | 20.4 | 2 5.3 | 1 764.0 | 193.7 | .169 | .236 | .483 | .011 | | |
| Alabama Alaska Arizona Arkansas California | 80.3 | 26.6 | 1 786.3 | 73.2 | .399 | (D) | (D) | .013 | | |
| | 8.4 | 34.3 | 1 650.4 | 227.5 | .221 | (D) | .298 | .011 | | |
| | 12.4 | 23.5 | 1 894.2 | 254.8 | .138 | .211 | .513 | .011 | | |
| | 26.1 | 20.2 | 2 079.0 | 103.7 | .241 | .319 | .346 | .014 | | |
| | 14.0 | 30.8 | 1 655.2 | 329.9 | .130 | .202 | .532 | .012 | | |
| Colorado Connecticut Delaware District of Columbia Florida | 14.2 | 24.1 | 2 040.8 | 172.7 | .188 | .187 | .541 | .017 | | |
| | 12.9 | 26.8 | 1 802.4 | 190.9 | .188 | .229 | .393 | .009 | | |
| | 14.2 | 18.4 | 1 595.5 | 133.6 | .188 | (D) | .359 | .013 | | |
| | (S) | (S) | (S) | (S) | (S) | (S) | (S) | (S) | | |
| | 13.1 | 20.0 | 1 827.7 | 177.1 | .153 | .271 | .461 | .013 | | |
| Georgia | 24.4 | 20.1 | 1 678.1 | 164.5 | .155 | .241 | .434 | .009 | | |
| | 21.9 | 32.3 | 1 788.7 | 279.1 | .163 | (D) | .484 | .014 | | |
| | 45.7 | (D) | 1 460.6 | (D) | (D) | (D) | (D) | (D) | | |
| | 17.5 | (D) | 1 677.0 | 221.0 | (D) | .219 | .561 | .008 | | |
| | 20.9 | 26.3 | 1 647.6 | 155.4 | .207 | .295 | .383 | .008 | | |
| lowa | 15.2 | 19.6 | 1 760.0 | 121.4 | .206 | .350 | .297 | .007 | | |
| Kansas | 14.2 | 20.8 | 2 003.3 | 180.3 | .159 | .341 | .377 | .009 | | |
| Kentucky | 30.0 | 23.3 | 1 978.7 | 161.5 | .182 | .280 | .485 | .014 | | |
| Louisiana | 16.9 | 18.7 | 1 750.2 | 101.2 | .229 | .275 | .260 | .024 | | |
| Maine | *18.3 | 21.4 | 2 040.2 | 268.2 | .117 | .270 | .531 | .010 | | |
| Maryland | 21.2 | 21.1 | 1 997.9 | 128.0 | .199 | .222 | .338 | .013 | | |
| | 18.6 | 26.2 | 1 748.1 | 268.4 | .136 | .209 | .534 | .016 | | |
| | 21.3 | 28.4 | 1 729.2 | 252.9 | .148 | .177 | .668 | .010 | | |
| | 15.7 | 25.4 | 1 734.4 | 237.7 | .141 | .298 | .328 | .017 | | |
| | 13.7 | 16.8 | 1 786.0 | 150.9 | .140 | .391 | .332 | .006 | | |
| Missouri | 29.5 | 29.1 | 1 922.5 | 256.2 | .150 | .188 | .463 | .006 | | |
| | *8.0 | *17.9 | *934.4 | *211.2 | .117 | (D) | .541 | (S) | | |
| | 14.5 | 20.0 | 1 931.9 | 154.8 | .171 | .308 | .366 | .005 | | |
| | 19.3 | 25.4 | 1 694.8 | 287.2 | .118 | .159 | .586 | .006 | | |
| | 23.2 | 26.5 | 1 696.8 | (D) | (D) | (D) | (D) | (D) | | |
| New Jersey | 12.7 | 28.0 | 1 775.0 | 249.1 | .157 | .226 | .477 | .011 | | |
| | 10.2 | 18.1 | 1 443.3 | 163.5 | .150 | .217 | .463 | .013 | | |
| | 17.6 | 30.6 | 1 887.4 | 211.3 | .194 | .198 | .449 | .015 | | |
| | 45.3 | 23.8 | 1 807.9 | 179.0 | .164 | .264 | .536 | .020 | | |
| | 12.2 | 19.6 | 1 932.9 | 113.6 | .223 | .460 | .234 | .012 | | |
| OhioOklahomaOregonPennsylvaniaRhode Island | 16.7 | 26.3 | 1 796.4 | 216.8 | .162 | .242 | .495 | .010 | | |
| | 11.2 | 23.0 | 1 972.7 | 120.3 | .238 | .311 | .358 | .010 | | |
| | 12.7 | 22.8 | 1 465.6 | 158.5 | .189 | .301 | .325 | .009 | | |
| | 22.0 | 25.2 | 1 689.0 | (D) | (D) | (D) | (D) | (D) | | |
| | 18.6 | 28.4 | 1 636.6 | 404.1 | .100 | .191 | .660 | .007 | | |
| South Carolina South Dakota Tennessee Texas Utah | 54.2 | 27.6 | 1 774.1 | 257.5 | .134 | .271 | .399 | .011 | | |
| | 14.2 | 18.4 | 1 415.2 | 126.7 | .193 | (D) | .366 | .008 | | |
| | 28.2 | 18.9 | 1 807.0 | 137.5 | .167 | .281 | .400 | .008 | | |
| | 26.8 | 20.6 | 1 714.3 | 93.2 | .265 | .282 | .345 | .014 | | |
| | 9.8 | 23.1 | 1 841.7 | 197.6 | .153 | .243 | .471 | .015 | | |
| Vermont Virginia | 25.3 | 24.4 | 2 484.0 | 186.8 | .166 | .240 | .513 | .007 | | |
| | 22.9 | 19.5 | 1 716.4 | 179.9 | .137 | .199 | .576 | .008 | | |
| | 13.0 | 27.0 | 1 672.3 | 240.8 | .153 | .221 | .504 | .013 | | |
| | 14.0 | 21.4 | 1 548.1 | 91.4 | .275 | .252 | .223 | .017 | | |
| | 18.3 | 25.8 | 1 778.1 | 163.6 | .198 | .256 | .437 | .006 | | |
| | *10.9 | 21.8 | 2 009.6 | 193.3 | .166 | .249 | .489 | *.011 | | |



APPENDIX A. Explanation of Terms

Construction—Is composed of three broad categories:

- New construction—Includes the complete, original erection of structures and essential service facilities and the initial installation of integral equipment such as elevators, and plumbing, heating, and air-conditioning supplies and equipment.
- Additions, alterations or reconstruction—Includes construction activity making structural changes to existing facilities. Generally, this type of activity is considered a capital investment in the property.
- 3. Maintenance and repair—Includes construction done for the purpose of upkeep of property rather than additional investment in the property.

Examples of the general distinction between maintenance and repair and reconstruction are provided here: roof repairs, including the replacement of shingles, gutters, etc., are classified under maintenance and repairs. A complete reroofing, however, is classified as reconstruction.

Number of establishments in business during year—Includes all establishments that were in business at any time during the year. It covers all full-year and part-year operations. Construction establishments which were inactive or idle for the entire year were not included.

Proprietors and working partners—These data were not collected on the census report forms. The data shown are based on crediting each sole proprietorship establishment with one active proprietor and each partnership establishment with two working partners.

All employees—Comprise all full-time and part-time employees on the payrolls of construction establishments, who worked or received pay for any part of the pay period including the 12th of March, May, August, and November. Included are all persons on paid sick leave, paid holidays, and paid vacations during these pay periods. Officers of corporations are included, but proprietors and partners of unincorporated firms are not.

All employees is the sum of all employees during the pay periods including the 12th of March, May, August, and November, divided by 4.

Construction workers—Includes all workers up through the working foreman level directly engaged in construction operations, such as painters, carpenters, plumbers, and electricians. Included are journeymen, mechanics, apprentices, laborers, truck drivers and helpers, equipment operators, and on-site record keepers and security guards. Supervisory employees above the working foreman level are excluded from this category but are included in the "other employees" category.

Other employees—Includes employees in executive, purchasing, accounting, personnel, professional, technical activities, and routine office functions. Also included are supervisory employees above the working foreman level.

Construction worker hours—Includes the total number of hours worked by construction workers. Construction worker hours were collected for each of the four quarters of 1987.

Payroll—Includes the gross earnings paid in the calendar year 1987 to all employees on the payroll of construction establishments. It includes all forms of compensation such as salaries, wages, commissions, dismissal pay, bonuses, vacation and sick leave pay, prior to such deductions as employees' Social Security contributions, withholding taxes, group insurance, union dues, and savings bonds. The total includes salaries of officers of these establishments, if a corporation, but excludes payments to the proprietor or partners, if an unincorporated concern.

Employer costs for fringe benefits (supplemental labor costs)—Represents expenditures made by the employer during 1987 for legally required and voluntary fringe benefit programs for employees.

Legally required contributions—Include Social Security contributions, unemployment compensation, workman's compensation, and State temporary disability payments.

Voluntary payments—Include life insurance premiums, pension plans, insurance premiums on hospital and medical plans, welfare plans, and union negotiated benefits.

Dollar value of business done comprises the following detail:

Value of construction work done—Includes all value of construction work done during 1987 for construction work performed by general contractors, special trades contractors, subcontractors, and land development and improvement work. Included is new construction, additions and alterations or reconstruction, and maintenance and repair construction work. Also included is the value of any construction work done by the reporting establishments for themselves.

Builders were instructed to include the value of buildings and other structures built or being built for sale in 1987 but not sold. They were to include the costs of such construction plus normal profit. Also included is the cost of construction work done on buildings for rent or lease.

Establishments engaged in the sale and installation of such construction components as plumbing, heating, and central air conditioning supplies and equipment; lumber and building materials; paint, glass, and wallpaper; and electrical and wiring supplies, elevators or escalators, etc., were instructed to include both the value for the installation and the receipts covering the price of the items installed.

Excluded was the cost of industrial and other specialized machinery and equipment which are not an integral part of a structure.

Land receipts—Includes receipts from the sale of land, whether held for sale or sold in connection with the sale of houses and other structures. It excludes the value of any improvements made to the land prior to the sale. (That value was to be included in the value of construction work done.)

Other business receipts—Includes business receipts not reported as value of construction work done or land receipts. The item includes business receipts from retail and wholesale trade, rental of equipment, manufacturing, transportation, legal service, insurance, finance, rental of property and other real estate operations, and other nonconstruction activities. Receipts for separately definable architectural and engineering work for others are also included here.

Excluded was the value of construction work done and receipts from other business operations in foreign countries and non-operating income such as interest and dividends.

Net value of construction work—Derived for each establishment by subtracting the costs for construction work subcontracted to others from the value of construction work done. (For a further explanation see "Duplication in Value of Construction Work" section in the Introduction.)

Value added—Derived for each establishment, value added is equal to dollar value of business done, less costs for construction work subcontracted to others, and costs for materials, components, supplies and fuels. For SIC 6552 and SIC 1531, for which land receipts are significant, land receipts are also subtracted from dollar value of business done. (For a further explanation see "Duplication in Value of Construction Work" section in the Introduction.)

Selected costs—Represents the costs for materials, components, and supplies; costs for construction work subcontracted to others; and costs for selected power, fuels, and lubricants. Capital expenditures and rental costs for machinery, equipment, and structures are shown elsewhere.

Costs for materials, components, and supplies include:

- total costs to reporting establishments during 1987 for the purchase of all materials, components, and supplies, except fuels. (Supplies include expendable tools which are charged to current accounts.)
- freight and other direct charges should represent only amount paid after discounts, and the value of materials, components, and supplies obtained from other establishments of the respondent's company.
- costs for materials, components, and supplies used by the reporting establishments in the construction or reconstruction of buildings/structures for themselves which are chargeable to their fixed assets accounts, are included in this item as are costs for materials bought and resold to others.
- costs made for direct purchases of materials, components, and supplies even though the purchases were subsequently provided to subcontractors for their use.

Excluded from this item are:

- industrial and other specialized machinery and equipment, such as printing presses; computer systems;
 etc., which are not an integral part of a structure
- materials furnished to contractors by the owners of projects.

Costs for construction work subcontracted to others include:

all costs during 1987 for construction work subcontracted out to other construction contractors.

Excluded from this item are:

- The costs to the reporting establishment for its purchases of materials, components, and supplies, provided to a subcontractor for his use. Such costs are reported under a separate category, "costs for materials, components, and supplies."
- · costs for the rental of machinery or equipment.

Costs for selected power, fuels, and lubricants include:

- costs for fuels, lubricants, and electric energy purchased during the year from other companies, or received from other establishments of the company.
- costs for natural and manufactured gas, fuel oil, coal and coke products, etc.

Rental costs for machinery, equipment, and buildings—Includes all costs during 1987 for renting or leasing construction machinery and equipment, transportation equipment, production equipment, office equipment, furniture and fixtures, scaffolding, office space, and buildings. It excludes costs for the rental of land. It also excludes costs under agreements which, in effect, are conditional sales contracts such as capital leases. Such costs are included in "capital expenditures."

Selected purchased services—Includes all costs during 1987 for communication services purchased from other companies or from other establishments of the company. It also includes the cost of all repairs made to structures and equipment by outside companies, or from other establishments of the same company. It includes only the cost of that repair necessary to maintain property and equipment. It excludes the cost of improvements that increase the value of property, or the cost of adapting it for another use. Such costs are included in "capital expenditures".

Assets and depreciation—Refers to the original cost of all fixed tangible assets such as buildings and other structures (offices, shops, etc.); stationary machinery (generators, shop equipment, etc.); mobile machinery (tractors, trucks, etc.); and other equipment (office furniture and fixtures, etc.). Not included are such items as current assets, depletable assets, intangible assets, and nondepreciable assets.

Data on assets and depreciation were collected separately for: (1) buildings and other structures, additions, and related facilities; and, (2) machinery and equipment.

Respondents were also asked to report capitalized expenditures, depreciation charges, and the gross value of assets sold, retired, scrapped, destroyed, etc., during 1987.

Capital expenditures—Refers to all costs actually incurred during 1987 which were or would be chargeable to the fixed assets accounts of the reporting establishments and which were of the type for which depreciation accounts are ordinarily maintained. These expenditures cover the acquisition, the construction, and the major alteration of the reporting establishment's own buildings and other structures, whether purchased, constructed under contract, or constructed by the reporting establishment's own forces; and the acquisition of machinery and equipment.

If leasing arrangements met the criteria set down by the Financial Accounting Standards Board (FASB) for a capital lease, respondents were instructed to report the original cost or market value of that equipment or building as a fixed asset and capital expenditure if acquired during 1987.

If capital expenditures were not recorded directly at the establishment level but handled centrally at the company or division level, respondents were requested to report appropriate estimates for the individual establishments.

Inventories—Includes all of the materials and supplies that are owned regardless of where they are held. Excludes materials which are owned by others, but held by the reporting establishment.

Builders who built on their own account for sale were requested to report work in progress and finished units not sold for buildings and other structures built for sale. Inventories of multi-establishment companies were instructed to be reported by the establishment that is responsible for the inventories even if these inventories were held at a separate location.

Ownership of construction projects—This item shows the distribution of the value of construction work done by ownership of the project, that is, Government owned or privately owned. This classification relates to the ownership of the projects or work undertaken during the construction phase. Government owned projects are shown separately for Federal, and State and local governments.

Value of construction work subcontracted in from others—Includes the value of construction work during 1987 for work done by reporting establishments for other construction contractors or builders. Establishments were asked to report the approximate percent of total value of construction work accounted for by such work, and the percentages reported were applied to the reported value of construction work to develop a value for this item.

Types of construction—This item provides data by the types of buildings, structures, or other facilities being constructed or worked on by construction establishments in 1987. Respondents were instructed that each building, structure, or other facility should be classified in terms of its function. For example, a restaurant building was to be classified in the restaurant category whether it was designed as a commercial restaurant building or an auxiliary unit of an educational institution. If respondents worked on more than one type of building or structure in a multibuilding complex, they were instructed to report separately for each building or type of structure. If they worked on a building that had more than one purpose, i.e, office and residential, or commercial, they were to classify the building by major purpose.

In addition all respondents were requested to report the percentage of the value of construction work done for new construction, additions, alterations, or reconstruction, and maintenance and repair work for each of these types. See the definition of "Construction" for the meanings of these terms.

Building construction:

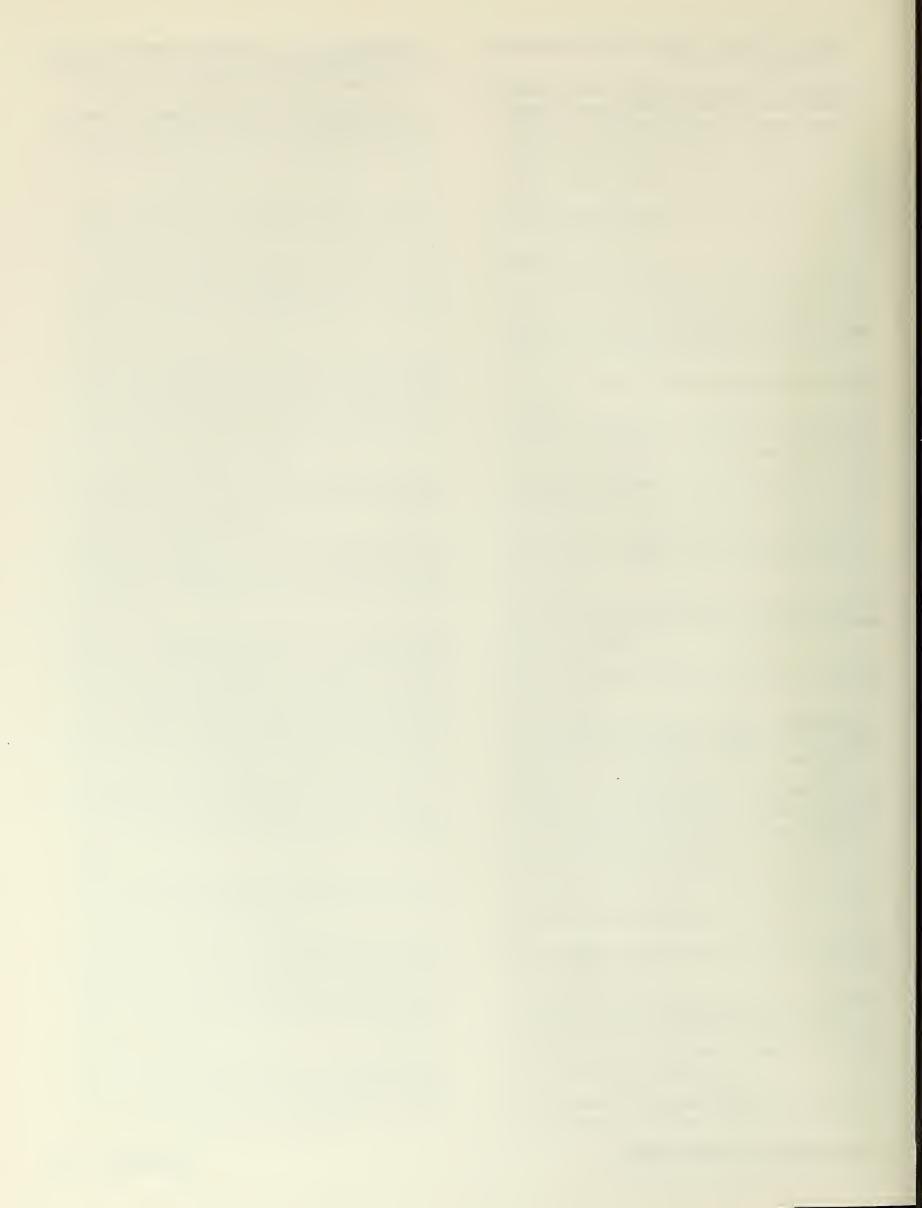
- Single-family houses, detached—Includes all residential buildings constructed for one family use.
- Single-family houses, attached (include town-houses)—Includes all residential buildings with two or more living quarters side by side, completely independent of one another, and separated by an unbroken wall from ground to roof.
- Apartment buildings with two or more apartments—Includes high-rise, low-rise, or any structures containing two or more housing units (excluding attached single-family houses and townhouses described above).
- Hotels and motels—Includes hotels, motels, and tourist cabins intended for transient accommodations.

- Other residential buildings—Includes dormitories, fraternity and sorority houses, nurses homes, and other nonhousekeeping residential structures.
- Office buildings—Includes all buildings which are used primarily for office space or for government administrative offices. Also included are banks or financial buildings which are three stories or more.
- Other commercial buildings, such as stores, restaurants, and automobile service stations— Includes all buildings which are intended for use primarily in the wholesale, retail, and service trades. For example, shopping centers, department stores, drug stores, restaurants, public garages, auto service stations, and one or two story bank or financial institutions.
- Industrial buildings—Includes all industrial buildings and plants which are used to house production and assembly activities. Heavy industrial facilities such as blast furnaces, petroleum refineries, chemical complexes, etc., are not included in this category, but under nonbuilding construction.
- Warehouses—Includes commercial warehouses, cold storage plants, grain elevators, mini-warehouses, and other such storage buildings.
- Religious buildings—Includes all buildings which are intended for religious services or functions, such as churches, synagogues, convents, monasteries, and seminaries.
- Educational buildings—Includes all buildings which are used directly in administrative and instructional activities, such as colleges, universities, elementary and secondary schools, correspondence, commercial, and trade schools. Libraries, museums, and art galleries, as well as laboratories which are not a part of a manufacturing establishment, are also included.
- Hospitals and institutional buildings—Includes all buildings which are intended to provide hospital and institutional care, such as clinics, infirmaries, sanitariums, nursing homes, homes for the aged, and orphanages.
- Farm buildings, nonresidential—Includes nonresidential farm buildings such as barns, poultry houses, implement sheds, and farm silos.
- Amusement, social, and recreational buildings— Includes buildings which are used primarily for entertainment, social and recreational activities, such as sports arenas, theaters, music halls, golf and country club buildings, skating rinks, bowling alleys, and indoor swimming pools.
- Other nonresidential buildings—Includes nonresidential buildings which are not classified elsewhere, such as fire stations, prisons, civic centers, bus and air passenger terminals and hangars.

Nonbuilding construction:

- Highways, streets and related work, such as installation of guardrails, highway signs, etc.—Includes streets, roads, alleys, sidewalks, curbs and gutters, culverts, right-of-way drainage, erosion control and lighting. Also includes earthwork protective structures when used in connection with road improvements.
- Outdoor swimming pools—Includes wading pools and reflecting pools.
- Recreational facilities—Includes athletic fields, golf courses, outdoor tennis courts, trails, and camps.
- Bridges and elevated highways—Includes viaducts and overpasses; roads, highways, railroads, and causeways built on structural supports.
- Tunnels—Includes highway, pedestrian, and railroad tunnels.
- Railroad construction—Includes the construction of railroad beds, tracks, freight yards, and signal towers.
- Subway construction—Includes urban mass transit subway systems above or below ground.
- Dam and reservoir construction—Includes hydroelectric, water supply, and flood control dams and reservoirs.
- Marine construction—Includes dredging, underwater rock removal, breakwaters, navigational channels, jetties, and locks.
- Harbor and port facilities—Includes docks, piers, and wharves.
- Conservation and development construction— Includes land reclamation, irrigation projects, drainage canals, levees, and flood control projects.
- Power and communication transmission lines, towers, and related facilities—Includes electric power lines, telephone and telegraph lines, fiber optic cables, cable television lines, television and radio towers, electric light and power facilities.
- Power plants, except nuclear—Includes electric and steam generating plants.
- Power plants, nuclear—Includes atomic energy plants, and nuclear reactors.
- Sewers, sewerlines, and related facilities—Includes sanitary and storm sewers, and related facilities.
- Sewage treatment plants—Includes sewage treatment and waste disposal plants.
- Water mains and related facilities—Includes water supply systems and related facilities.

- Water treatment plants—Includes water filtration and water softening plants.
- Pipeline construction other than sewer or waterlines—Includes pipelines for the transmission of gas, petroleum products, and liquefied gases.
- Blast furnaces, petroleum refineries, chemical complexes, etc.—Includes coke ovens, and mining appurtenances such as tipples and washeries.
- Other nonbuilding construction—Includes all types of nonbuilding construction, not included elsewhere.



APPENDIX B.

Standard Industrial Classification Titles for Industry Groups and Industries

| SIC code | Industry titles | SIC | Industry titles |
|--------------------|--|---------------------|---|
| | | | |
| 15 | BUILDING CONSTRUCTION—GENERAL CONTRACTORS AND OPERATIVE BUILDERS | 17 | CONSTRUCTION—SPECIAL TRADE CONTRACTORS—Con. |
| 152 | General Building Contractors—Residential Buildings | 1 73 1731 | Electrical Work Special Trade Contractors Electrical Work Special Trade Contractors |
| 1521 1522 | General Contractors—Single-Family Houses General Contractors—Residential Buildings, | 174 | Masonry, Stone Work Tile Setting, and Plastering Special Trade Contractors |
| | Other Than Single-Family | 1741 | Masonry, Stone Setting, and Other Stone Work Special Trade Contractors |
| 153 1531 | Operative Builders Operative Builders | 1742 | Plastering, Drywall, Acoustical, and Insulation Work Special Trade Contractors |
| 154 | General Building Contractors—Nonresidential Buildings | 1743 | Terrazzo, Tile, Marble, and Mosaic Work Special Trade Contractors |
| 1541 | General Contractors—Industrial Buildings and Warehouses | 175 | Carpentry and Floor Work Special Trade Contractors |
| 1542 | General Contractors—Nonresidential Buildings, Other Than Industrial Buildings and Warehouses | 1751 1752 | Carpentry Work Special Trade Contractors Floor Laying and Other Floor Work Special |
| 16 | HEAVY CONSTRUCTION OTHER THAN BUILDING CONSTRUCTION— | | Trade Contractors, Not Elsewhere Classified |
| | CONTRACTORS | 176 | Roofing, Siding, and Sheet Metal Work Special Trade Contractors |
| 161 | Highway and Street Construction, Except Elevated Highways | 1761 | Roofing, Siding, and Sheet Metal Work Special Trade Contractors |
| 1611 | Highway and Street Construction Contractors, Except Elevated Highways | 177 1771 | Concrete Work Special Trade Contractors Concrete Work Special Trade Contractors |
| 162 | Heavy Construction, Except Highway and Street Construction | 178 | Water Well Drilling Special Trade Contractors |
| 1622 | Bridge, Tunnel, and Elevated Highway Construction Contractors | 1781 | Water Well Drilling Special Trade Contractors |
| 1623 | Water, Sewer, Pipeline, and Communications and Powerline Construction | 179 1791 | Miscellaneous Special Trade Contractors Structural Steel Erection Special Trade Contractors |
| 1629 | Heavy Construction, Not Elsewhere Classified | 1793 | Glass and Glazing Work Special Trade Contractors |
| 17 | CONSTRUCTION—SPECIAL TRADE CONTRACTORS | 1794 1795 | Excavation Work Special Trade Contractors Wrecking and Demolition Work Special |
| 171 | Plumbing, Heating, and Air-Conditioning | 1796 | Trade Contractors Installation or Erection of Building Equipment, |
| 1711 | Special Trade Contractors Plumbing, Heating, and Air-Conditioning Special Trade Contractors | ., | Special Trade Contractors, Not Elsewhere Classified |
| 172 | Painting and Paper Hanging | 1799 | Special Trade Contractors, Not Elsewhere Classified |
| 1721 | Special Trade Contractors Painting and Paper Hanging | 6552 | LAND SUBDIVIDERS AND DEVELOPERS, |
| | Special Trade Contractors | 0332 | EXCEPT CEMETERIES |



APPENDIX C. Geographic Divisions and States

NEW ENGLAND STATES

Connecticut
Maine
Massachusetts
New Hampshire

Rhode Island Vermont

MIDDLE ATLANTIC STATES

New Jersey New York Pennsylvania

EAST NORTH CENTRAL STATES

Illinois Indiana Michigan Ohio Wisconsin

WEST NORTH CENTRAL STATES

Iowa Kansas Minnesota Missouri Nebraska North Dakota South Dakota

SOUTH ATLANTIC STATES

Delaware
District of Columbia
Florida
Georgia
Maryland

SOUTH ATLANTIC STATES—Con.

North Carolina South Carolina Virginia West Virginia

EAST SOUTH CENTRAL STATES

Alabama Kentucky Mississippi Tennessee

WEST SOUTH CENTRAL STATES

Arkansas Louisiana Oklahoma Texas

MOUNTAIN STATES

Arizona
Colorado
Idaho
Montana
Nevada
New Mexico
Utah
Wyoming

PACIFIC STATES

Alaska California Hawaii Oregon Washington

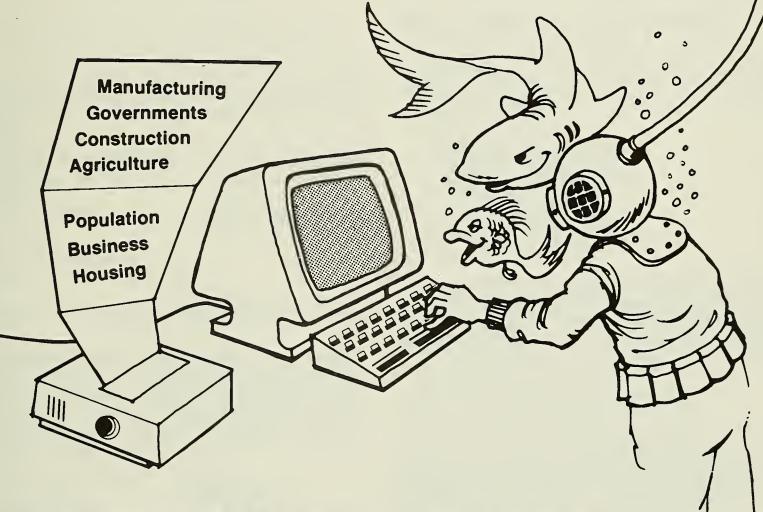


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PUBLICATION PROGRAM

1987 CENSUS OF CONSTRUCTION INDUSTRIES

The Census of Construction Industries is taken once every 5 years. The census covers all establishments engaged in construction, including:

- Building contractors
- Heavy construction contractors
- Special trade contractors (including plumbers, carpenters, painters, electricians)
- Land developers and subdividers

Data products in the Census of Construction Industries are issued in 4 publication series and in 3 other media:

Printed reports

 CD-ROM [C]

 Computer tape T

[+] Highlights online

Preliminary Industry Series (CC87-I-1(P) through CC87-I-28(P))

(Available November 1988 through May 1989) [P]

Twenty-seven separate industry reports and a United States summary report, providing national statistics for establishments with payroll. Statistics shown for 1987 include:

- Number of establishments
 Value of construction work
- Number of employees
- Payroll
- Hours worked
- - done, by type of struc-
- Selected operating costs

Final Industry Series (CC87-I-1 through CC87-I-28)

(Available June 1989 through November 1989) [P] [C] [T] [+]

Twenty-seven separate industry reports and a United States summary report, providing statistics for the Nation and individual States on establishments with payroll. These reports update figures from the preliminary industry series (employment, payroll, value of construction, etc.) and provide measures of the following:

- Capital expenditures
- Inventories
- Industry profiles
- Assets
- Depreciation
- · And much more

Geographic Area Series (CC87-A-1 through CC87-A-10)

(Available January 1990 through March 1990) [P] [C] [T] [+]

Nine reports on the construction industries, representing each census geographic division, and a United States summary report. Regional reports provide detailed data for States and metropolitan statistical areas.

Subject Report—Legal Form of Organization and Type of Operation (CC87-S-1)

(Available May 1990) [P]

One report providing selected national statistics for each industry by legal form of organization and type of operation. This report includes data for establishments with and without payroll. Data in this report include-

- Employment
- Payroll
- Value of construction work done
- Selected operating costs

OTHER ECONOMIC CENSUSES REPORTS

The Census of Construction Industries is part of the 1987 Economic Censuses. These are conducted at five-year intervals in years ending in 2 and 7 and consist of seven separate censuses:

- Census of Retail Trade
- Census of Wholesale Trade
- Census of Service Industries
- Census of Transportation
- Census of Manufactures
- Census of Mineral Industries
- Census of Construction

...plus several related programs: enterprise statistics; information on minority-owned and women-owned businesses; and the Census of Outlying Areas, including separate economic censuses of Puerto Rico and other outlying areas. The Census of Agriculture and Census of Governments are conducted separately.

HOW TO ORDER DATA PRODUCTS

Order forms for the specific reports and other data products may be obtained from Data User Services Division, Customer Services (Publications), Bureau of the Census, Washington, DC 20233. If you have any questions, call Census Customer Services 1-(301)-763-4100.

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